



## 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

**DECEMBER 8, 2011**



# North American Energy Standards Board

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## NAESB BOARD OF DIRECTORS MEETING

Four Seasons Hotel, 1300 Lamar, Houston, TX – Austin Room, 3<sup>rd</sup> Floor -- Thursday, December 8 – 9:00 am to 1:00 pm C

### TABLE OF CONTENTS

| #      | Agenda Item  | Page |
|--------|--|------|
| 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 December 8, 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/bd120811a.docx">http://www.naesb.org/pdf4/bd120811a.docx</a> (agenda)  | 11   |
|        | b) Adoption of Draft Minutes - <a href="http://www.naesb.org/pdf4/bd092211dm.docx">http://www.naesb.org/pdf4/bd092211dm.docx</a> (minutes)   | 25   |
|        | c) Adoption of Revised 2011 WGQ Annual Plan<br><a href="http://www.naesb.org/pdf4/wgq_ec102711a4.docx">http://www.naesb.org/pdf4/wgq_ec102711a4.docx</a> (plan with redlined changes approved by the WGQ EC)   | 35   |
|        | d) Adoption of Revised 2011 Retail Annual Plan<br><a href="http://www.naesb.org/pdf4/retail_ec102611a4.docx">http://www.naesb.org/pdf4/retail_ec102611a4.docx</a> (plan with redlined changes approved by the Retail Gas & Electric ECs)   | 40   |
|        | e) Adoption of Revised 2011 WEQ Annual Plan:<br><a href="http://www.naesb.org/pdf4/weq_ec102511a2.docx">http://www.naesb.org/pdf4/weq_ec102511a2.docx</a> (plan with redlined changes approved by the WEQ EC)  | 48   |
|        | 3. Membership and Financial Reports, 2012 Proposed Budget  |      |
|        | a) 2011 Membership Update: 2011 Membership Update:<br><a href="http://www.naesb.org/misc/board_membership_slide_111011.ppt">http://www.naesb.org/misc/board_membership_slide_111011.ppt</a> (Profile),<br><a href="http://www.naesb.org/misc/board_membership_report_111011.doc">http://www.naesb.org/misc/board_membership_report_111011.doc</a> (Report) | 60   |
|        | b) Financial Year to Date Report 2011:<br><a href="http://www.naesb.org/misc/financial_profile_093011.pptx">http://www.naesb.org/misc/financial_profile_093011.pptx</a> (Profile),<br><a href="http://www.naesb.org/misc/financial_report_093011.docx">http://www.naesb.org/misc/financial_report_093011.docx</a> (Report)                                 | 71   |
|        | c) Financial Review Report: <a href="http://www.naesb.org/misc/naesb_2009-2010_financial_review_report_letter.pdf">http://www.naesb.org/misc/naesb_2009-2010_financial_review_report_letter.pdf</a> (Report from Dishongh, Jankowski & Eubank)   | 80   |
|        | d) Review, Discuss and Vote to Approve the 2012 Budget:<br><a href="http://www.naesb.org/misc/2012_proposed_budget_sept_rev.doc">http://www.naesb.org/misc/2012_proposed_budget_sept_rev.doc</a> (Proposed Budget for 2012)  | 82   |
|        | 4. Reports from Board Committees   |      |
|        | a) Resources Committee: <a href="http://www.naesb.org/pdf4/board_resource120811w1.pdf">http://www.naesb.org/pdf4/board_resource120811w1.pdf</a> (Report)   | 85   |
|        | b) Critical Infrastructure Committee: <a href="http://www.naesb.org/pdf4/bd_cic_110311notes.doc">http://www.naesb.org/pdf4/bd_cic_110311notes.doc</a> (Nov. 3 notes, <a href="http://www.naesb.org/pdf4/bd_cic_120111notes.doc">http://www.naesb.org/pdf4/bd_cic_120111notes.doc</a> ( Dec. 1 notes)   | 129  |
|        | c) Retail Restructuring Committee  |      |
|        | d) Parliamentary Committee   |      |
|        | e) Gas-Electric Coordinating Committee   |      |
|        | f) Managing Committee  |      |



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Four Seasons Hotel, 1300 Lamar, Houston, TX – Austin Room, 3<sup>rd</sup> Floor -- Thursday, December 8 – 9:00 am to 1:00 pm C

### TABLE OF CONTENTS

| #          | Agenda Item   | Page                     |
|------------|---|--------------------------|
| 5.         | Updates on specific efforts:  |                          |
| a)         | <ul style="list-style-type: none"> <li>• Publications: WGQ Publication Schedule (Version 2.1):<br/> <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>, scheduled for late summer 2012</li> <li>• WEQ Publication Schedule (Version 3.0):<br/> <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>, scheduled for first/second quarter 2012</li> <li>• Retail Publication Schedule (Version 2.0):<br/> <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>, scheduled for April 2012</li> <li>• Individual Books Availability in New Publications -<br/> <a href="http://www.naesb.org/pdf/ordrform.pdf">http://www.naesb.org/pdf/ordrform.pdf</a> (Order Form)</li> </ul> | 135<br>142<br>147<br>149 |
| b)         | Update on FERC Order No. 890 efforts  |                          |
| c)         | Update on Demand Response, Demand Side Management and Energy Efficiency   |                          |
| d)         | Status for the Electric Industry Registry:<br><a href="http://www.naesb.org/misc/eir_draft_implementation_plan_120511.doc">http://www.naesb.org/misc/eir_draft_implementation_plan_120511.doc</a> (Timeline),<br><a href="http://www.naesb.org/misc/EIR_FAOs_101911.docx">http://www.naesb.org/misc/EIR_FAOs_101911.docx</a> (FAQs)   | 151                      |
| e)         | Update on Smart Grid efforts  |                          |
| f)         | Update on Parallel Flow Visualization development   |                          |
| g)         | Update on modifications to WGQ Common Codes:<br><a href="http://www.naesb.org/pdf4/wgq_2011_api_7_rec.doc">http://www.naesb.org/pdf4/wgq_2011_api_7_rec.doc</a> (Recommendation approved by the WGQ EC on 10-27-11)   | 155                      |
| h)         | Update on streamlining WGQ standards and Retail Standards   |                          |
| i)         | Update on Dodd-Frank efforts: <a href="http://www.naesb.org/misc/dodd_frank_102111.doc">http://www.naesb.org/misc/dodd_frank_102111.doc</a> (Report)  | 160                      |
| j)         | FERC Order No. 1000 Review: <a href="http://www.naesb.org/pdf4/ferc_order1000_100311mn.doc">http://www.naesb.org/pdf4/ferc_order1000_100311mn.doc</a> (notes)   | 161                      |
| 6          | Review, Discuss and Vote to Approve the 2012 Annual Plans   |                          |
| a)         | 2012 WGQ Annual Plan: <a href="http://www.naesb.org/pdf4/wgq_ec102711a1.docx">http://www.naesb.org/pdf4/wgq_ec102711a1.docx</a>   | 171                      |
| b)         | 2012 WEQ Annual Plan: <a href="http://www.naesb.org/pdf4/weq_ec102511a3.docx">http://www.naesb.org/pdf4/weq_ec102511a3.docx</a>   | 176                      |
| c)         | 2012 Retail Annual Plan: <a href="http://www.naesb.org/pdf4/retail_ec102611a5.docx">http://www.naesb.org/pdf4/retail_ec102611a5.docx</a>  | 187                      |
| 7.         | Old and New Business  |                          |
| a)         | Liaisons with external groups: U.S. DoE, FERC, NARUC, NERC, NPC, NSTC, Other Groups   |                          |
| b)         | Comments from Board Members, Invited Guests and Speakers, and Attendees   |                          |
| c)         | Board Meeting Schedule 2012: <a href="http://www.naesb.org/misc/2012_schedule.doc">http://www.naesb.org/misc/2012_schedule.doc</a>  | 195                      |
| d)         | Plan for March 22, 2012 Board Meeting   |                          |
| 1:00 pm 8. | 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                           | Director - 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>                         |  |                  |
| V A C A N C Y                                   |  | 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>   |   |                  |
| V A C A N C Y                              |   | 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

| <b>TRANSMISSION SEGMENT</b>      |  | <b>TERM END:</b> | <b>SUBSEGMENT:</b> |
|----------------------------------|--|------------------|--------------------|
| 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                |
| Alex DeBoissiere                 | Senior Vice President – Government Relations, The United Illuminating Company                                      | 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           |
| <b>V A C A N C Y</b>             |  | 12-31-2011       | at large           |
| <b>GENERATION SEGMENT</b>        |  |                  |                    |
| <b>V A C A N C Y</b>             |  | 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                      | Vice President - Operations Compliance Officer, Southern Company.  | 12-31-2011       | IOU                |
| Elizabeth Killinger              | Senior Vice President – Customer Operations, NRG Energy, Inc.  | 12-31-2011       | at large           |
| Joseph Hartsoe                   | Managing Director – Federal Policy, American Electric Power Service Corp.  | 12-31-2012       | at large           |
| Shah Hossain                     | Senior Regulatory Specialist, Westar Energy, Inc.  | 12-31-2011       | at large           |
| <b>MARKETERS/BROKERS SEGMENT</b> |  |                  |                    |
| 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.    |
| <b>V A C A N C Y</b>             |  | 12-31-2012       | at large           |
| <b>V A C A N C Y</b>             |  | 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                |
| <b>V A C A N C Y</b>             |  | 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           |
| V A C A N C Y   |   | 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       | at large           |
| 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       |
| VACANCY                                    |  | 12-31-2012       |
| <b>END USERS/PUBLIC AGENCIES SEGMENT</b>   |  |                  |
| VACANCY                                    |  | 12-31-2012       |
| VACANCY                                    |  | 12-31-2012       |
| VACANCY                                    |  | 12-31-2011       |
| VACANCY                                    |  | 12-31-2011       |



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Via email and posting  
 November 22, 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:** Announcement of Agenda Availability for Board Meeting and Related Meetings – **Additional Materials Added**

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 and provide agendas for the upcoming Board meeting on December 8 and related meetings to be held December 7-8 in Houston, Texas at the Four Seasons Hotel in downtown Houston. **Please note that this is a change in hotels from previous announcements.** I hope you are able to travel to Houston for our upcoming Board meeting, related committee meetings and our Board dinner. During this Board meeting, we will discuss the 2012 budget and the 2012 annual plans for approval.

The specifics of the Board meeting and related meetings are:

Events: Board of Directors Meeting, and related NAESB meetings

Where: Four Seasons Hotel, 1300 Lamar in downtown Houston, (713) 650-1300 (excepting Board Reception and Dinner)

When: December 7 Wholesale Gas Quadrant Leadership Meeting from 11:00 am to 1:00 pm C (lunch served in the meeting)

December 7 Wholesale Electric Quadrant Leadership Meeting from 1:00 am to 3:00 pm C

December 7 Retail Gas & Electric Quadrants Leadership Meeting from 3:00 pm to 5:00 pm C

December 7 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 Four Seasons Hotel)

December 8 Resources Committee Meeting from 8:00 am to 9:00 am C

December 8 Board Meeting from 9:00 am to 1:00 pm C, (a buffet lunch will be served during the meeting)

December 8 PKI Subcommittee Meeting from 2:00 pm to 5:00 pm C

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.

We are fortunate that Mr. Terence (Terry) H. Thorn, who was instrumental in the drafting of the National Petroleum Report and was a member of the NPC demand task group will be our dinner speaker on December 7. With much focus on the report and the interdependence of the gas and electric markets, his remarks will be of particular interest to us and possible work that could be directed to NAESB. The NPC report can be found at the NPC web site: <http://npc.org/>.

The following Board agenda has supporting documents linked by agenda item. Should you have any difficulty accessing the materials provided in the links, please do not hesitate to call our office. As additional materials are made available to the office, a revised agenda will be provided and the new materials easily identified as they will be formatted with yellow highlights. The meeting materials shown as links in the agenda will be assembled into a Board book, which can be downloaded from the NAESB Board of Directors page. It should be assembled shortly and notification will be sent to you of its availability.



## 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 Four Seasons Hotel for those attendees travelling to Houston.<sup>1</sup> For those staying in the hotel, transportation is provided for attending the Board dinner. ***Two buses will also be available on December 8 at 12:30 pm to take participants to either Hobby Airport or Bush Intercontinental Airport. Depending on when the meeting ends, the buses can leave between 12:30 pm and 1:00 pm. With normal traffic conditions, it should take 20-30 minutes to leave the hotel and arrive at either airport.***

We look forward to your attendance at the leadership meetings and the dinner on December 7, followed by the Resources Committee meeting and the Board meeting and the PKI Subcommittee meeting on December 8.

Best Regards,

*Rae McQuade*

Rae McQuade

NAESB President and COO

***As a reminder for your calendars, the 2012 Board meetings are scheduled to be held in Houston on March 22, June 21, September 20, and December 6, 2012.***

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<sup>1</sup> Individuals will book directly with hotel's reservation department at (800) 734-4114 and should indicate group affiliation at the time of making the reservation in order to obtain the group rate - North American Energy Standards Board. The group rate is \$175 per night for a superior king room.



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### CONFERENCE CALLING AND WEB CONFERENCING DETAILS FOR THE DECEMBER 7-8, 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.

|       |   |   |
|-------|---|---|
| Dec 6 | 9:00 am to 4:00 pm C  | WGQ Information Requirements/Technical Subcommittee , Day 1– Agenda provided separately - <a href="http://www.naesb.org/wgq/ir.asp">http://www.naesb.org/wgq/ir.asp</a> |
|       | NAESB Offices, 801<br>Travis, Suite 1675,<br>Houston, Texas           | <ul style="list-style-type: none"> <li>• Call in number <b>866-740-1260</b></li> <li>• Access Code <b>7133564</b></li> <li>• Security Code <b>1221</b></li> </ul>       |
| Dec 7 | 8:30 am to 10:30 am<br>1:30 pm to 4:00 pm C                           | WGQ Information Requirements/Technical Subcommittee, Day 2 – Agenda provided separately - <a href="http://www.naesb.org/wgq/ir.asp">http://www.naesb.org/wgq/ir.asp</a> |
|       | Clear Lake Room, Four<br>Seasons Hotel, 1300<br>Lamar, Houston, Texas | <ul style="list-style-type: none"> <li>• Call in number <b>866-740-1260</b></li> <li>• Access Code <b>7133564</b></li> <li>• Security Code <b>1221</b></li> </ul>       |
| Dec 7 | 11:00 am to 1:00 pm C   | Wholesale Gas Quadrant Leadership Meeting (In person and Conference Call)   |
|       | Whitney Room, Four<br>Seasons Hotel, 1300<br>Lamar, Houston, Texas    | <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>                            |
| Dec 7 | 1:00 pm to 3:00 pm C  | Wholesale Electric Quadrant Leadership Meeting (In person and Conference Call)  |
|       | Whitney Room, Four<br>Seasons Hotel, 1300<br>Lamar, Houston, Texas    | <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>                            |
| Dec 7 | 3:00 pm to 5:00 pm C  | Retail Gas and Electric Quadrants Leadership Meeting (In person and Conference Call)  |
|       | Whitney Room, Four<br>Seasons Hotel, 1300<br>Lamar, Houston, Texas    | <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>                            |
| Dec 8 | 8:00 am to 9:00 am C  | Resources Committee Meeting (In person and Conference Call)   |
|       | Travis Room, Four<br>Seasons Hotel, 1300<br>Lamar, Houston, Texas     | <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>                            |
| Dec 8 | 9:00 am to 1:00 pm C  | Board Meeting (In person and Conference Call/Web Cast)  |
|       | Austin Room, Four<br>Seasons Hotel, 1300<br>Lamar, Houston, Texas     | <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>                            |



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### CONFERENCE CALLING AND WEB CONFERENCING DETAILS

#### FOR THE DECEMBER 7-8, 2011 SET OF BOARD AND RELATED MEETINGS

|       |  |  |  |
|-------|--|--|--|
| Dec 8 | 2:00 pm to 5:00 pm C   | WEQ PKI Subcommittee (In person and Conference Call/Web Cast) – Agenda provided separately - <a href="http://www.naesb.org/WEQ/weq_pki.asp">http://www.naesb.org/WEQ/weq_pki.asp</a> |  |
|       | Livingston Room Four<br>Seasons Hotel, 1300<br>Lamar, Houston, Texas | <ul style="list-style-type: none"> <li>• Call in number</li> <li>• Access Code</li> <li>• Security Code</li> </ul>   | <p>866-740-1260<br/>7133562<br/>1301</p> |

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.



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**NAESB BOARD OF DIRECTORS MEETING**  
**Four Seasons Hotel, 1300 Lamar, Houston, TX – Thursday, December 8 – 9:00 am 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 December 8, 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/bd120811a.docx">http://www.naesb.org/pdf4/bd120811a.docx</a> (agenda)  |
|        | b) Adoption of Draft Minutes - <a href="http://www.naesb.org/pdf4/bd092211dm.docx">http://www.naesb.org/pdf4/bd092211dm.docx</a> (minutes)   |
|        | c) Adoption of Revised 2011 WGQ Annual Plan <a href="http://www.naesb.org/pdf4/wgq_ec102711a4.docx">http://www.naesb.org/pdf4/wgq_ec102711a4.docx</a><br>(plan with redlined changes approved by the WGQ EC)   |
|        | d) Adoption of Revised 2011 Retail Annual Plan <a href="http://www.naesb.org/pdf4/retail_ec102611a4.docx">http://www.naesb.org/pdf4/retail_ec102611a4.docx</a><br>(plan with redlined changes approved by the Retail Gas & Electric ECs)   |
|        | e) Adoption of Revised 2011 WEQ Annual Plan: <a href="http://www.naesb.org/pdf4/weq_ec102511a2.docx">http://www.naesb.org/pdf4/weq_ec102511a2.docx</a><br>(plan with redlined changes approved by the WEQ EC)  |
|        | 3. Membership and Financial Reports, 2012 Proposed Budget  |
|        | a) 2011 Membership Update: 2011 Membership Update:<br><a href="http://www.naesb.org/misc/board_membership_slide_111011.ppt">http://www.naesb.org/misc/board_membership_slide_111011.ppt</a> (Profile),<br><a href="http://www.naesb.org/misc/board_membership_report_111011.doc">http://www.naesb.org/misc/board_membership_report_111011.doc</a> (Report) |
|        | b) Financial Year to Date Report 2011: <a href="http://www.naesb.org/misc/financial_profile_093011.ppt">http://www.naesb.org/misc/financial_profile_093011.ppt</a><br>(Profile), <a href="http://www.naesb.org/misc/financial_report_093011.docx">http://www.naesb.org/misc/financial_report_093011.docx</a> (Report)                                      |
|        | c) Financial Review Report: <a href="http://www.naesb.org/misc/naesb_2009-2010_financial_review_report_letter.pdf">http://www.naesb.org/misc/naesb_2009-2010_financial_review_report_letter.pdf</a> (Report from Dishongh, Jankowski & Eubank)   |
|        | d) Review, Discuss and Vote to Approve the 2012 Budget;<br><a href="http://www.naesb.org/misc/2012_proposed_budget_sept_rev.doc">http://www.naesb.org/misc/2012_proposed_budget_sept_rev.doc</a> (Proposed Budget for 2012)  |
|        | 4. Reports from Board Committees and simple majority votes where noted:  |
|        | a) Resources Committee: <a href="http://www.naesb.org/pdf4/board_resource120811w1.pdf">http://www.naesb.org/pdf4/board_resource120811w1.pdf</a> (Report)   |
|        | b) Critical Infrastructure Committee: <a href="http://www.naesb.org/pdf4/bd_cic_110311notes.doc">http://www.naesb.org/pdf4/bd_cic_110311notes.doc</a> (Nov. 3 notes), <a href="http://www.naesb.org/pdf4/bd_cic_120111notes.doc">http://www.naesb.org/pdf4/bd_cic_120111notes.doc</a> (Dec. 1 notes)   |
|        | c) Retail Restructuring Committee  |
|        | d) Parliamentary Committee   |

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### NAESB BOARD OF DIRECTORS MEETING

Four Seasons Hotel, 1300 Lamar, Houston, TX – Thursday, December 8 – 9:00 am to 1:00 pm Central  
DRAFT AGENDA

| #  | Agenda Item  |
|----|--|
| e) | Gas-Electric Coordinating Committee  |
| f) | Managing Committee   |
| 5. | Updates on specific efforts:   |
| a) | <ul style="list-style-type: none"><li>• Publications: WGQ Publication Schedule (Version 2.1):<br/><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>, scheduled for late summer 2012</li><li>• WEQ Publication Schedule (Version 3.0):<br/><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>, scheduled for first/second quarter 2012</li><li>• Retail Publication Schedule (Version 2.0):<br/><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>, scheduled for April 2012</li><li>• Individual Books Availability in New Publications - <a href="http://www.naesb.org/pdf/ordrform.pdf">http://www.naesb.org/pdf/ordrform.pdf</a> (Order Form)</li></ul> |
| b) | Update on FERC Order No. 890 efforts   |
| c) | Update on Demand Response, Demand Side Management and Energy Efficiency  |
| d) | Status for the Electric Industry Registry:<br><a href="http://www.naesb.org/misc/eir_draft_implementation_plan_120511.doc">http://www.naesb.org/misc/eir_draft_implementation_plan_120511.doc</a> (Timeline),<br><a href="http://www.naesb.org/misc/EIR_FAQs_101911.docx">http://www.naesb.org/misc/EIR_FAQs_101911.docx</a> (FAQs)  |
| e) | Update on Smart Grid efforts   |
| f) | Update on Parallel Flow Visualization development  |
| g) | Update on modifications to WGQ Common Codes:<br><a href="http://www.naesb.org/pdf4/wgq_2011_api_7_rec.doc">http://www.naesb.org/pdf4/wgq_2011_api_7_rec.doc</a> (Recommendation approved by the WGQ EC on 10-27-11)  |
| h) | Update on streamlining WGQ standards and Retail Standards  |
| i) | Update on Dodd-Frank efforts: <a href="http://www.naesb.org/misc/dodd_frank_102111.doc">http://www.naesb.org/misc/dodd_frank_102111.doc</a> (Report)   |
| j) | FERC Order No. 1000 Review: <a href="http://www.naesb.org/pdf4/ferc_order1000_100311mn.doc">http://www.naesb.org/pdf4/ferc_order1000_100311mn.doc</a> (notes)  |
| 6  | Review, Discuss and Vote to Approve the 2012 Annual Plans  |
| a) | 2012 WGQ Annual Plan: <a href="http://www.naesb.org/pdf4/wgq_ec102711a1.docx">http://www.naesb.org/pdf4/wgq_ec102711a1.docx</a>  |
| b) | 2012 WEQ Annual Plan: <a href="http://www.naesb.org/pdf4/weq_ec102511a3.docx">http://www.naesb.org/pdf4/weq_ec102511a3.docx</a>  |
| c) | 2012 Retail Annual Plan: <a href="http://www.naesb.org/pdf4/retail_ec102611a5.docx">http://www.naesb.org/pdf4/retail_ec102611a5.docx</a>   |
| 7. | Old and New Business   |
| a) | Liaisons with external groups: U.S. DoE, FERC, NARUC, NERC, NPC, NSTC, Other Groups  |
| b) | Comments from Board Members, Invited Guests and Speakers, and Attendees  |



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### NAESB BOARD OF DIRECTORS MEETING

Four Seasons Hotel, 1300 Lamar, Houston, TX – Thursday, December 8 – 9:00 am to 1:00 pm Central

#### DRAFT AGENDA

| #      | Agenda Item   |
|--------|---|
|        | c) Board Meeting Schedule 2012: <a href="http://www.naesb.org/misc/2012_schedule.doc">http://www.naesb.org/misc/2012_schedule.doc</a>   |
|        | d) Plan for March 22, 2012 Board Meeting  |
| 1:00 P | 8. Adjourn – Buses will be available to attendees of the Board meeting, for transportation from the Four Seasons Hotel to Hobby and Bush Intercontinental Airports beginning at 12:30 pm C for those attendees needing transportation to the airports |

*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

Four Seasons Hotel, 1300 Lamar, Houston, TX – Thursday December 8 – 8:00 to 9:00 am Central

#### DRAFT AGENDA

| #      | Agenda Item   |
|--------|---|
| 8:00 A | 1. Welcome  |
|        | <ul style="list-style-type: none"> <li>a) Antitrust Guidelines</li> <li>b) Welcome to participants and roll call</li> <li>c) Agenda Adoption: <a href="http://www.naesb.org/pdf4/board_resource120811a.pdf">http://www.naesb.org/pdf4/board_resource120811a.pdf</a> (Agenda),</li> </ul>  |
|        | 2. Status towards goal of 30 net new members: New members, 187; Home page access, 34; Resignations, 196; Progress = Net -9, <a href="http://www.naesb.org/pdf4/board_resource120811w1.pdf">http://www.naesb.org/pdf4/board_resource120811w1.pdf</a> (Resources Report), <a href="http://www.naesb.org/pdf4/board_resource092211mn.pdf">http://www.naesb.org/pdf4/board_resource092211mn.pdf</a> (Notes from September meeting)  |
|        | <ul style="list-style-type: none"> <li>a) New Members since last meeting [4]           <ul style="list-style-type: none"> <li>Caerus Energy, LLC (WGQ, Services)</li> <li><b>Energy Information Standards Alliance (REQ, End Users/Public Agencies)</b></li> <li>Energy Solutions International Inc. (WGQ, Services)</li> <li>Honeywell International, Inc. (REQ, End Users/Public Agencies)</li> <li>Marathon Petroleum Company LP (WGQ, End Users)</li> <li>Nalcor Energy (WEQ, Marketers/Brokers, Fed/State/Prov)</li> <li>PAA Natural Gas Storage, LLC (WGQ, Services)</li> <li><b>Power Costs, Inc. (WEQ, Technology/Services)</b></li> <li>QEP Resources, Inc. (WGQ, Producer)</li> <li><b>Stryve Advisors, LLC (WEQ, Technology/Services)</b></li> <li>Vermont Public Service Board (WEQ, End Users)</li> <li>Vermont Public Service Board (REQ, End Users/Public Agencies)</li> <li><b>ZigBee Alliance (REQ, End Users/Public Agencies)</b></li> </ul> </li> <li>b) Subscriptions to Home Page Access since last meeting [1]           <ul style="list-style-type: none"> <li>Big Apple Energy, LLC</li> <li>Caerus Energy LLC</li> <li>Dewey &amp; LeBoeuf (<i>Annual Renewal</i>)</li> <li>IGS Energy</li> <li>Itineris</li> <li>Jones Day</li> <li>Morgan, Lewis &amp; Bockius, LLP</li> <li>One Link Financial Inc.</li> <li>SaskPower Corporation (<i>Annual Renewal</i>)</li> <li><b>TransAlta Energy Marketing Canada (<i>Annual Renewal</i>)</b></li> <li>Wasbash Valley Power Association</li> <li>White &amp; Case LLP (<i>Annual Renewal</i>)</li> </ul> </li> </ul> |



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### NAESB BOARD RESOURCES COMMITTEE MEETING

Four Seasons Hotel, 1300 Lamar, Houston, TX – Thursday December 8 – 8:00 to 9:00 am Central

#### DRAFT AGENDA

| #  | Agenda Item   |
|----|---|
| c) | Resignations since last meeting [4]<br>American Wind Energy Association (WEQ, Generation, Merchant)<br>Ballard Natural Gas, LLC (WGQ, Services)<br>BP American Inc. (WEQ, End Users)<br>Brookfield Energy Marketing, Inc. (WEQ Marketers/Brokers)<br>Dairyland Power Cooperative (WEQ, Transmission)<br>Electric Power Supply Association (WEQ, Marketers/Brokers, At Large)<br><b>First Energy Solutions Corp. (WEQ, Marketers/Brokers)</b><br>High Mount Exploration & Production, LLC (WGQ, Producer)<br>Laclede Gas Co. (WGQ, LDC)<br>Modesto Irrigation District (WEQ, Transmission, Muni/Coop)<br>National Fuel Gas Distribution (WGQ, LDC)<br>National Grid Gas Distribution Companies (WGQ, LDC)<br><b>Navigant Consulting, Inc. (REQ, End Users/Public Agencies)</b><br>Reliance Gas Transportation Infrastructure Limited (WGQ, Pipeline)<br>RRI Energy Services, Inc. (WEQ, Generation)<br><b>Sierra Southwest Cooperative Services, Inc. (RGQ, Service Providers/Supplies)</b><br>SolArc, Inc. (WGQ, Services)<br><b>South Carolina Electric &amp; Gas Company (WEQ, Marketers/Brokers)</b><br>Southern California Edison Company (WEQ, Generation)<br>Southern Natural Gas Co. (WGQ, Pipeline)<br>Vega Energy Partners, Ltd. (WGQ, Services) |
| d) | Results of exit interviews<br><i>First Energy Solutions Corp. (WEQ, Marketers/Brokers) Non-renewal</i><br><i>Navigant Consulting, Inc. (REQ, End Users/Public Agencies) Non-renewal-unable to find time to be adequately involved, as such it does not work for their Energy Practice at this time.</i><br><i>Sierra Southwest Cooperative Services, Inc. (RGQ, Service Providers/Suppliers) Non-renewal-sold natural gas business</i><br><i>South Carolina Electric &amp; Gas Company (WEQ, Marketers/Brokers) Non-renewal – Keeping WEQ, Transmission membership</i>  |
| 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 15 new members/20 resignations (net -5)</i><br><i>WGQ 12 new members/14 resignations (net -2)</i><br><i>REQ 8 new members/2 resignation (net +6)</i><br><i>RGQ 2 new member/3 resignation (net -1)</i>  |



## North American Energy Standards Board

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Home Page: [www.naesb.org](http://www.naesb.org)

### NAESB BOARD RESOURCES COMMITTEE MEETING

Four Seasons Hotel, 1300 Lamar, Houston, TX – Thursday December 8 – 8:00 to 9:00 am Central

#### DRAFT AGENDA

| #      | Agenda Item               |
|--------|---------------------------|
| 6.     | Other Business/Next Steps |
| 9:00 A | Adjourn                   |

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



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### NAESB WGQ LEADERSHIP MEETING

Four Seasons Hotel, 1300 Lamar, Houston, TX – Wednesday December 7 – 11:00 am to 1:00 pm Central

#### DRAFT AGENDA

| #       | Agenda Item   |
|---------|---|
| 11:00 A | 1. Welcome <ol style="list-style-type: none"> <li>a) Antitrust Guidelines <a href="http://www.naesb.org/misc/antitrust_guidance.doc">http://www.naesb.org/misc/antitrust_guidance.doc</a> (Guidance)</li> <li>b) Welcome to participants</li> </ol>                             |
|         | 2. Agenda Adoption  |
|         | 3. Review of Membership for WGQ   |
|         | 4. Update on Publication Activities: <ul style="list-style-type: none"> <li>• WGQ Publication Schedule (Version 2.1):<br/> <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> </ul> |
|         | 5. Review of the 2011 Executive Committee Report <a href="http://www.naesb.org/pdf4/wgq_ec102711a4.docx">http://www.naesb.org/pdf4/wgq_ec102711a4.docx</a> (plan) including Common Codes and Streamlining Standards   |
|         | 6. Discussion of 2012 Proposed WGQ Annual Plan: <a href="http://www.naesb.org/pdf4/wgq_ec102711a1.docx">http://www.naesb.org/pdf4/wgq_ec102711a1.docx</a>   |
|         | 7. Review of Other Board or Leadership Issues   |
|         | 8. 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

Four Seasons Hotel, 1300 Lamar, Houston, TX – Wednesday December 7 – 1:00 to 3:00 pm Central

#### DRAFT AGENDA

| #      | Agenda Item  |
|--------|--|
| 1:00 P | 1. Welcome <ul style="list-style-type: none"> <li>a) Antitrust Guidelines <a href="http://www.naesb.org/misc/antitrust_guidance.doc">http://www.naesb.org/misc/antitrust_guidance.doc</a> (Guidance)</li> <li>b) Welcome to participants</li> </ul>  |
|        | 2. Agenda Adoption   |
|        | 3. Review of Membership for WEQ  |
|        | 4. Update on Publication Activities: <ul style="list-style-type: none"> <li>• WEQ Publication Schedule (Version 3.0):<br/><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>                                       |
|        | 5. Review of the 2011 Executive Committee Report Plan<br><a href="http://www.naesb.org/pdf4/weq_ec102511a2.docx">http://www.naesb.org/pdf4/weq_ec102511a2.docx</a> including Smart Grid, Order 890, Parallel Flow Visualization, DSM-EE, PKI, NERC Coordination – including PFV and EIR coordination items, Registry |
|        | 6. Discussion of 2012 Proposed WEQ Annual Plan: <a href="http://www.naesb.org/pdf4/weq_ec102511a3.docx">http://www.naesb.org/pdf4/weq_ec102511a3.docx</a> (Plan)   |
|        | 7. Review of Other Board or Leadership Issues  |
|        | 8. Old and New Business  |
| 3:00 P | Adjourn<br><i>Attire – Business Casual – lunch served in the room at 12:30 pm</i>  |



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### NAESB RETAIL QUADRANTS LEADERSHIP MEETING

Four Seasons Hotel, 1300 Lamar, Houston, TX – Wednesday December 7 – 3:00 to 5:00 pm Central

#### DRAFT AGENDA

| #      | Agenda Item   |
|--------|---|
| 3:00 P | 1. Welcome <ol style="list-style-type: none"> <li>a) Antitrust Guidelines <a href="http://www.naesb.org/misc/antitrust_guidance.doc">http://www.naesb.org/misc/antitrust_guidance.doc</a> (Guidance)</li> <li>b) Welcome to participants</li> </ol>   |
|        | 2. Agenda Adoption  |
|        | 3. Update on Membership and Discussion of Ideas for Broadening Membership   |
|        | 4. Update on Publication Activities (Retail Schedule): <ul style="list-style-type: none"> <li>• Retail Publication Schedule (Version 2.0):<br/> <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>  |
|        | 5. Review of the 2011 Executive Committee Report: <a href="http://www.naesb.org/pdf4/retail_ec102611a4.docx">http://www.naesb.org/pdf4/retail_ec102611a4.docx</a><br>Smart Grid, Standards Streamlining, Demand Response, Energy Efficiency, Leadership for Information Requirements and TEIS Subcommittees |
|        | 6. Discussion of 2012 Proposed Retail Annual Plan: <a href="http://www.naesb.org/pdf4/retail_ec102611a5.docx">http://www.naesb.org/pdf4/retail_ec102611a5.docx</a><br>(Plan)  |
|        | 7. Discussion of progress made in Technical Support Proposal to New York State  |
|        | 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*



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October 16, 2011

**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 –September 22, 2011

**NAESB BOARD OF DIRECTORS MEETING & MEETING OF THE MEMBERS**  
**Four Seasons Hotel, Houston, Texas**  
**Thursday, September 22, 2011 – 9:00 a.m. to 1:00 pm Central**  
**DRAFT MINUTES**

### 1. Administration and Welcome

Ms. Crockett welcomed the Board members and guests in the room and on the phone. She opened the Board meeting and noted it was also serving as the meeting of the members. Ms. Cummings provided the antitrust guidance and called the roll of the NAESB Board members. Quorum was established.

### 2. Adoption of the Agenda and Minutes

Mr. Hurley moved, seconded by Mr. Young, to approve the consent agenda. The motion passed unanimously.

### 3. Membership and Financial Report

Membership Report: Ms. McQuade reviewed the [membership report](#). She noted that while NAESB lost some members this year, the Retail Electric Quadrant has gained members due to Smart Grid, Energy Efficiency and Demand Response.

Financial Report: Ms. Wishart provided the [financial report](#). NAESB anticipates being able to provide net income to the retained earnings to continue to reduce the negative retained earnings through the end of the year.

### 4. Reports from Board Committees

Resources: Mr. Booe provided the [report](#) of the Resources Committee. He stated that NAESB had a net loss of three members. While members have been lost, more companies are requesting home page access. There are vacancies in all quadrants for both Board and Executive Committee seats, which provides an opportunity to recruit new members.

Critical Infrastructure Committee: Mr. Hurley provided an [update](#) of the activities of the Critical Infrastructure Committee. He noted that several Authorized Certificate Authorities (ACAs) that service the industry have been hacked and had their certificates revoked. He also noted that a group of Argentinian information security researchers planned to disclose in a hacker conference a vulnerability of secure sockets layer protocol (SSL). This allows hackers to decrypt information sent across what should be a secure transaction. Due to time limitations, a Board Update conference call has been scheduled for Friday, October 7 at 9:30 am Central to further discuss this issue.

Retail Restructuring Update: Mr. Minneman provided the update for the Retail Restructuring Committee. Membership has increased in the Retail Electric Quadrant (REQ) due to the energy efficiency and Smart Grid efforts. The Retail Gas Quadrant (RGQ) membership, however, has remained low. The activities that led to the increase in the REQ are not as relevant to the RGQ. The committee continues to discuss ways in which to increase RGQ membership.

Parliamentary Committee: Ms. Crockett noted that she would schedule a conference call to close out the remaining Parliamentary Committee items and report back at the next Board meeting.

Certification Committee: Mr. Spangler provided the [update](#) of the Certification Committee. The committee met nine times since April to discuss the requirements to become an ACA for the Public Key Infrastructure standards



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(WEQ-012). The committee updated the certification program for the ACAs. He noted that it was not the responsibility of the Certification Committee to establish the technical requirements for the WEQ-012 standards, which would be addressed by the NAESB WEQ PKI Subcommittee. This document may require further changes as a result of the PKI Subcommittee work. Mr. Spangler moved, seconded by Mr. Kirby, to approve the [Certification Committee document](#) on the ACA requirements. The motion unanimously passed a simple majority vote.

Gas-Electric Coordinating Committee: This subcommittee has not begun to meet. Several Board members have expressed interest but NAESB is awaiting further FERC and National Petroleum Council direction prior to activating the committee. The NPC report was released on September 15, 2011.

Managing Committee: Ms. Crockett noted that the Managing Committee met in [August](#) to discuss staff performance and compensation and a new item from the WEQ EC meeting, asking for clarification on the scope of a specific request which was [resolved](#).

### 5. Updates on Specific Efforts

Publications: Ms. Rager provided an update of the NAESB publication schedule. The next [WGO publication](#), Version 2.1, will occur in July of 2012. The [WEQ Version 3.0](#) is scheduled to be published in the first or second quarter of 2012. The [Retail Version 2.0](#) will be published in April, 2012.

WEQ, Update on FERC Order No. 890 efforts: Ms. York provided an update on the FERC Order No. 890 efforts. The [recommendation](#) for Service Across Multiple Transmission Systems (SAMTS) was approved by the Executive Committee on June 30<sup>th</sup> and ratified by the membership. The OASIS Subcommittee has focused its efforts on incorporating informal comments received by industry into a final [recommendation](#) for Network Integrated Transmission Service (NITS) with plans to complete the work by end of this quarter and release it for a 60-day formal comment period. The EC voted to approve an extended comment period due to the complexity and volumes of documentation associated with these standards. The package will not only include the recommendation but 5 additional documents including:

- Revisions to the Glossary in WEQ-000
- Revisions to WEQ-001 – OASIS Business Standards
- Revisions to WEQ-002 – OASIS S&CPs,
- Revisions to WEQ-003 – OASIS Data Dictionary, and
- Revisions to WEQ-013 - the Implementation Guide.

The subcommittee will also host another industry technical conference to help participants understand the new changes and allow for clarifying questions. The conference will be scheduled approximately 14-20 days into the comment period so as to allow participants time to read over the standards first.

WEQ/Retail Electric, Update on Demand Response and Demand Side Management: Since the last Board meeting, there has been no activity in the Wholesale Demand Response or Energy Efficiency work groups.

The Retail Demand Response work group continues to address R10002, enrollment in a demand response program. The work group expanded the scope to include account information change and drops.

The Retail Energy Efficiency work group continues to work on its recommendation. An informal comment period was held from July 25 to August 3 for feedback on the recommendation. During the August 22 work group meeting, participants reviewed the comments submitted by ISO New England to eliminate the term evaluation because it implies subjectivity that is inconsistent with business practices used by the industry. This inconsistency between the wholesale and retail recommendations could be a significant problem given that there are two wholesale markets that accept retail energy efficiency into wholesale capacity markets. Also, the recommendation appears to be exclusive to state regulated energy efficiency, but there is significant energy efficiency conducted by merchants that are outside state jurisdiction. These businesses operate in the retail space and would benefit from model business practices that create level operative procedures. To address these concerns, the Retail Energy Efficiency work group agreed to map between the two documents (Retail and Wholesale recommendations). The work group began with the wholesale recommendation and looked for ways that the current draft of the retail recommendation



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could be included into the wholesale format. This work should be completed in mid-October, with the next Retail Energy Efficiency work group meeting to be held in early November.

RFP Status for the Electric Industry Registry: Ms. Cummings provided the [update](#). NAESB and OATI continue to work closely to transfer the TSIN registry from NERC to NAESB. OATI has completed the functional specifications, which was approved by both NERC and NAESB, and work has begun on the development of the new webRegistry.

Smart Grid Activities: Mr. Booe provided the update. The REQ.22 Data Privacy standard (third party access to smart meter-based information) was ratified on August 8, 2011 and is the first final action that will be incorporated into the next REQ publication. The development of the standard included the participation of many state commission staff members and had the strong support of NARUC. During the summer NARUC meeting in Los Angeles on July 20, 2011, several of the Committees adopted a Smart Grid Principles resolution that identified the NAESB Data Privacy Standard as a good reference point for commissions considering rules related to data access by consumers. The NAESB office has been asked to include it on the ANSI portal (the ANSI portal is site maintained by ANSI that makes requested standards available to a limited number of individuals that have an interest in reviewing a standard – such as the SGIP architecture or testing and certification committee members). The standard has not been submitted for consideration as part of the catalog of standards as of today but may be in the future.

The Energy Services Provider Interface Standard (REQ.21) was approved by the REQ EC on September 15, 2011 following a requested review by the REQ Technical Electronic Implementation Subcommittee (TEIS) and the ESPI Task Force. The approved recommendation has been posted for ratification and will become a final action on October 17, 2011. Like the Data Privacy standard, there have been several inquiries from SGIP groups interested in reviewing the standard. Recently, Aneesh Chopra, the US Chief Technology Officer (CTO) to the Executive Office and the Office of Science and Technology Policy requested the standard and had several questions about its finalization. The following Monday, Chris Irwin, with the Department of Energy, contacted Mr. Booe to request the standard and to inform NAESB that he and Mr. Chopra will be visiting the three largest utilities in California to discuss their smart grid deployments and the potential for implementation of the ESPI standard. Mr. Booe told both Mr. Irwin and Mr. Sinai with the Office of Science and Technology that NAESB would support their efforts in any way they see fit.

The co-chairs of the Smart Grid Standards Subcommittee on Priority Action Plan 10 have scheduled a conference call for October 5 to review the NAESB Priority Action Plan 10 standards and Energy Usage Information Model for consistency with the recent modifications to the IEC CIM (61968), Smart Energy Profile 2.0 and the development of SPC 201 by ASHRAE. During the conference call the subcommittee will determine if the standards or the Energy Usage Information Model should be modified and set up additional subcommittee meetings if needed.

Update on Parallel Flow Visualization: This update was skipped in the interest of time for the Strategic Review Panel.

Update on Common Codes: This update was skipped in the interest of time for the Strategic Review Panel.

Update on streamlining WGQ standards: This update was skipped in the interest of time for the Strategic Review Panel.

Update on development of WGQ Gas Contract: This update was skipped in the interest of time for the Strategic Review Panel.

Update on 2012 Annual Planning Activities: This update was skipped in the interest of time for the Strategic Review Panel.

### 6. Implications of Federal Law and Policy for the Shale Gas Industry

Ms. Hollis provided the [update](#). She discussed the implications of federal law and policy for the shale gas industry. She noted the various governmental agencies and departments involved in this effort. She stated that public opinion on shale gas has been impacted by media, in particular the Gaslands documentary. Based on that movie, France



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banned hydraulic fracturing. With the United States government relying more heavily on natural gas for the national energy supply, there has been heavy debate on the amount of regulation necessary for the extraction shale gas because its importance is clear. By 2035 it is predicted that 50% of the total gas supply could come from shale gas and 70% of the states have shale gas opportunities. The Environmental Protection Agency (EPA) has studied the potential impacts of hydraulic fracturing on drinking water resources under a variety of circumstances. The interim study is due to be issued at the end of 2012, with the final report completed in 2014, but there is concern that the study is too slow to be relevant.

### **7. Strategic Review and Input from Panel - Michelle Foss, Sheila Hollis, Annabelle Lee, Joelle Ogg, Kathleen Magruder, Sue Tierney and Rick Smead**

The purpose of the panel is to identify areas where NAESB standards development may be beneficial to the industries.

First, Ms. Foss provided her insight. She followed Ms. Hollis' presentation on shale gas, explaining that several Texas, New York and Pennsylvania schools are updating their petroleum engineering programs to include shale gas. She agreed that the use of shale gas will increase, contingent upon its commerciality. She also noted the National Petroleum Council (NPC) report. She noted that it is difficult to accommodate many different generation sources on the grid. The source of generation and the economics of the different sources are so varied that regional advantages should not be ignored. She suggested that NAESB members not forget the big picture of the electric power grid, its sources and the different incentive structures of those sources.

Ms. Tierney followed up on both Ms. Hollis and Ms. Foss' discussions. She supported the NPC recommendation of industry-led, regionally based "councils of excellence" and noted that NAESB had the potential to provide the process for them. She also noted that the report described issues related to the integration of gas and electricity and suggested that NAESB could bring the appropriate people together to discuss that issue.

Mr. Smead noted the trouble with comparing resource estimates across the industry and suggested that some commonality would be beneficial. He also suggested that NAESB could be involved in creating common language for shale and resource-related issues. He agreed with Ms. Tierney that NAESB could address gas, electric and intermittent renewables interactions.

Ms. Ogg noted that there is currently a large emphasis on information, which includes reporting, oversight and monitoring by more agencies. She suggested that NAESB could be involved in developing communication protocols.

Ms. Lee focused her comments on smart grid and cyber security efforts. She suggested that NAESB could put together practical guidance material on cyber security. She noted that standards are detailed specifications used in specific domains for specific communications. In cyber security, it is important that the entire system is included, not a single interface or subsystem. There are also concerns with the data collected in the smart grid. How will utilities analyze information that is collected every 15 minutes? How will this information be stored? Utilities in multiple states must follow multiple sets of laws related to a potential breach of private information. There should be a prioritization of critical systems because organizations do not have unlimited resources. She also noted the importance of coordinating internationally to address cyber security issues.

Mr. Pena provided an update on the energy safety institute that was discussed at the last Board of Directors meeting. He noted that, with the system safety approach, NAESB should consider starting a conversation on how system safety standards may be applicable to shale gas. NAESB could also demonstrate how, through model business practices, implementation can be done quickly.

Ms. Magruder noted that potential regulations would only serve to make energy less available and more expensive. She suggested that NAESB take on an educational program to explain how gas, gasoline, coal-fired generation and renewable generation all work to give the United States an abundant supply of energy to keep people healthy and safe. She noted that a common glossary could be helpful, too. She also noted that, under Dodd-Frank, companies that operate coal must make detailed disclosures on their safety records and reports on all payments made for each project to either the United States or foreign governments. NAESB may be able to help standardize some of these



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terms and also foster communication internationally. She also suggested that retail gas and electric providers standardize how to sign up with utilities.

Ms. Hollis noted that the United States has the resources and a massive infrastructure, as well as a large labor supply. She encouraged NAESB to develop the model to bring together some of the disparate goals discussed today.

### **8. Old and New Business**

No other business was discussed.

### **9. Adjourn**

The meeting adjourned at 12:28 pm Central.



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### 10. 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.                        | In Person         |
| Randy E. Parker                                     | Global Regulatory Advisor, ExxonMobil Gas and Power Marketing Company                          |                   |
| Catherine Abercrombie                               | Regulatory Affairs, ConocoPhillips Gas and Power Marketing                                     | In Person         |
| <b>WGQ PIPELINE SEGMENT</b>                         |  |                   |
| Douglas Field                                       | Manager – Compliance, Southern Star Ventral Gas Pipeline                                       | 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  |                   |
| Tim Sherwood  | Managing Director of Gas Operations and Capacity Planning, AGL Resources                       |                   |
| David W. Hadley                                     | Senior Vice President – Regulatory Affairs, NiSource, Inc.                                     |                   |
| <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  | Phone             |
| 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                                | In Person         |
| 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.  |                   |
| Jeff Miers  | Senior Executive (Partner), Accenture LLP  |                   |



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

#### REQ SERVICE PROVIDERS/SUPPLIERS SEGMENT

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

#### REQ UTILITIES SEGMENT

|                 |   |           |
|-----------------|---|-----------|
| Brandon Stites  | Director – Energy Conservation & Advanced Metering, 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. |       |
| James P. Cargas | Senior Assistant City Attorney, City of Houston       | Phone |

#### 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     |
| Terry Coggins   | Manager – Transmission Policy, Southern Company Transmission                  | IOU            |           |
| Mike Montoya    | Director of Grid Advancement, Southern California Edison                      | at large       |           |
| 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      |           |
| Kathy York          | Senior Program Manager – Energy Markets, Policy and Compliance Reporting, Tennessee Valley Authority             | Fed/State/Prov | In Person |
| 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 |
| Elizabeth Killinger | Senior Vice President – Customer Operations, NRG Energy, Inc.  | at large       |           |
| Joe Hartsoe         | Managing Director – Federal Policy, American Electric Power Service Corp.  | at large       | Phone     |
| Shah Hossain        | Senior Regulatory Specialist, Westar Energy, Inc.  | at large       | In Person |



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 Home Page: [www.naesb.org](http://www.naesb.org)

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

#### 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 Power Administration | Fed/State/Prov | .         |
| Jim Drake      | Trading Desk Head – Power, Florida Power & Light   | IOU            | In Person |
| R. Scott Brown | Vice President and Director, Exelon Generation Power Team  | IOU            |           |

#### WEQ DISTRIBUTION/LOAD SERVING ENTITIES (LSE) SEGMENT

|                  |   |           |           |
|------------------|---|-----------|-----------|
| 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 | In Person |
| Andrew Rodriguez | Director of Standards Development, North American Electric reliability Corporation (NERC) | IOU       | Phone     |
| Nelson Peeler    | Vice President System Operations, Duke Energy   | IOU       | Phone     |
| Bruce Ellsworth  | New York State Reliability Council  | At-Large  | In Person |

#### WEQ END USERS SEGMENT

|                    |   |           |           |
|--------------------|---|-----------|-----------|
| 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 Pieniasek    | Consultant, Rep: Energy Curtailment Specialists, Inc.   | at large  |           |
| Michehl Gent       | Open Access Technology International, Inc.  | At-Large  | In Person |

#### WEQ INDEPENDENT GRID OPERATORS/PLANNERS

|                  |  |  |           |
|------------------|--|--|-----------|
| Michael Desselle | Vice President Process Integrity, Southwest Power Pool                               |  | Phone     |
| Michael Cleary   | Senior Vice President and COO, ERCOT   |  |           |
| Kevin Kirby      | Vice President Market Operations, ISO New England, Inc.                              |  | In Person |
| 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 |
| Mark Wilson      | Director of Corporate Planning, Independent Electricity System Operator (IESO)       |  | Phone     |



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

#### WEQ TECHNOLOGY AND SERVICES

|                   |  |           |
|-------------------|--|-----------|
| Jim Buccigross    | Vice President Energy Industry Practice, 8760 Inc.   | In Person |
| 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) | Phone     |
| Sylvia Munson     | Director – Product Management and Regulatory Compliance, SunGard Energy and Commodities                                    | In Person |
| Dr. Scott Coe     | Vice President, Utility Integration Solutions, Inc. (UISOL)  | In Person |

#### RGQ SERVICE PROVIDERS/SUPPLIERS SEGMENT

|                |   |           |
|----------------|---|-----------|
| Leigh Spangler | President, Latitude Technologies Inc.                             | In Person |
| Joseph Monroe  | Vice President – External Affairs, SouthStar Energy Services, LLC |           |
| Dave Darnell   | President & CEO, Systrends USA                                    | Phone     |
| Greg Lander    | President, Capacity Center  |           |

#### RGQ DISTRIBUTORS SEGMENT

|                 |  |           |
|-----------------|--|-----------|
| 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.                  |           |
| Mike Novak      | Assistant General Manager – Federal Regulatory Affairs, National Fuel Gas Distribution   | In Person |

#### 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  |
| Dick Brooks       | ISO New England                            | In Person  |
| Pete Connor       | NiSource                                   | Phone      |
| Cory Cummings     | NAESB                                      | In Person  |
| Dale Davis        | Williams Gas Pipeline                      | In Person  |
| Michelle Foss     | University of Texas                        | In Person  |
| Sheila Hollis     | Duane Morris                               | In Person  |
| Annabelle Lee     | EPRI                                       | In Person  |
| Kathleen Magruder | Brown McCarroll                            | In Person  |
| Rae McQuade       | NAESB                                      | In Person  |
| Susan Munson      | ERCOT                                      | In Person  |
| Joelle Ogg        | DC Energy                                  | In Person  |
| Emil Pena         | Energy and Environmental Systems Institute | In Person  |
| Phil Precht       | BGE  | Phone      |
| Denise Rager      | NAESB                                      | In Person  |
| Lisa Simpkins     | Constellation Energy Resources             | Phone      |
| Narinder Saini    | Entergy                                    | Phone      |
| Ed Skiba          | Midwest ISO                                | In Person  |
| Rick Smead        | Navigant Consulting                        | Phone      |
| Dave Taylor       | NERC                                       | Phone      |
| Veronica Thomason | NAESB                                      | In Person  |
| Sue Tierney       | Analysis Group                             | Phone      |
| Ron Tomlinson     | Dominion Transmission                      | In Person  |
| Kim Van Pelt      | PEPL                                       | In Person  |
| Jill Vaughn       | Preferred Legal Services                   | In Person  |
| Darla Wishart     | NAESB                                      | 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 10-4-11 with Redlined Changes from the WGQ EC 10-27-11**

| Item Description  | Completion <sup>1</sup>                           | Assignment <sup>2</sup> |
|---|---|-------------------------|
| <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.<br><a href="#">(Reorganize Standards Request)</a><br>Status: Underway  | 1 <sup>st</sup> Q, 2012                           | 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: Complete | 2 <sup>nd</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: Underway  | 2 <sup>nd</sup> Q, 2012                           | 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: Complete   | 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: Underway   | <del>2<sup>nd</sup></del> 4 <sup>th</sup> Q, 2012 | 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: Complete   | 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: Underway  | <del>2<sup>nd</sup></del> 4 <sup>th</sup> Q, 2012 | IR/Technical            |



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**As Approved by the Board of Directors on 10-4-11 with Redlined Changes from the WGQ EC 10-27-11**

| 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   | 2 <sup>nd</sup> Q, 2012  | 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: Complete   | 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: Complete   | 3 <sup>rd</sup> Q, 2011  | Contracts Subcommittee                      |
| <b>7. Common Codes</b>   |  |   |
| a. Determine if location common codes as formulated are needed.<br>Status: <del>Underway</del> Complete  | 3 <sup>rd</sup> Q, 2011  | BPS   |
| b. <del>If location common codes are needed, then determine if existing specifications are sufficient, or conversely, if not needed, develop plan for modifications to support</del> <u>Modify standards for the</u> removal of location common code from NAESB WGQ standards.<br>Status: <del>Not Started</del> <u>Underway</u> | <u>Date dependent on annual plan item 7a</u> 2 <sup>nd</sup> Q, 2012 | <u>BPSIR/Technical</u>                      |
| <b>8. Changes to the WGQ Standards to support consistency with Retail and WEQ Activities</b>   |  |   |
| a. Review and determine if changes to the Internet Electronic Transport Manual related to the trading partner agreement are needed, and make appropriate changes consistent with Annual Plan Item 10 of the Retail 2011 Annual Plan<br>Status: Complete  | 4 <sup>th</sup> Q, 2011  | Contracts Subcommittee and EDM Subcommittee |
| <b>9. Session Encryption</b>   |  |   |
| a. <u>Investigate and determine if changes to standards are needed to support adequate session encryption (SSL/TLS issues US-Cert Vulnerability Note VU#864643)</u><br>Status: <u>Not Started</u>  | 1 <sup>st</sup> Q, 2012  | EDM   |
| b. <u>Modify or develop standards as needed to apply the analysis of the above item (9a)</u><br>Status: <u>Not Started</u>   | 2 <sup>nd</sup> Q, 2012  | EDM   |
| <b>10. Capacity Release Program</b>  |  |   |
| <u>Review NAESB WGQ Standard No. 5.3.2 and modify as necessary</u><br>Status: <u>Not Started.</u>  | 2 <sup>nd</sup> Q, 2012  | BPS   |
| <b>11. Usage designation for data (NAESB WGQ Standard No. 1.2.2)</b>   |  |   |
| a. <u>Investigate and determine if the designation of "sender's business conditional" usage for data and the use of defaults for mandatory usage</u>   | 1 <sup>st</sup> Q, 2012  | BPS   |



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| Item Description  | Completion <sup>1</sup>                   | Assignment <sup>2</sup>         |
|---|---|---------------------------------|
| <u>would be appropriate on a prospective basis</u>  |   |                                 |
| <u>Status: Underway</u>   |   |                                 |
| <u>b. Modify NAESB standards as needed to apply the analysis of the above item (10a)</u>                                    | <u>Date</u>                               | <u>BPS</u>                      |
| <u>Status: Not Started</u>  | <u>dependent on Annual Plan Item 10a.</u> |                                 |
| <b>Program of Standards Maintenance &amp; Fully Staffed Standards Work</b>  |   |                                 |
| 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> |

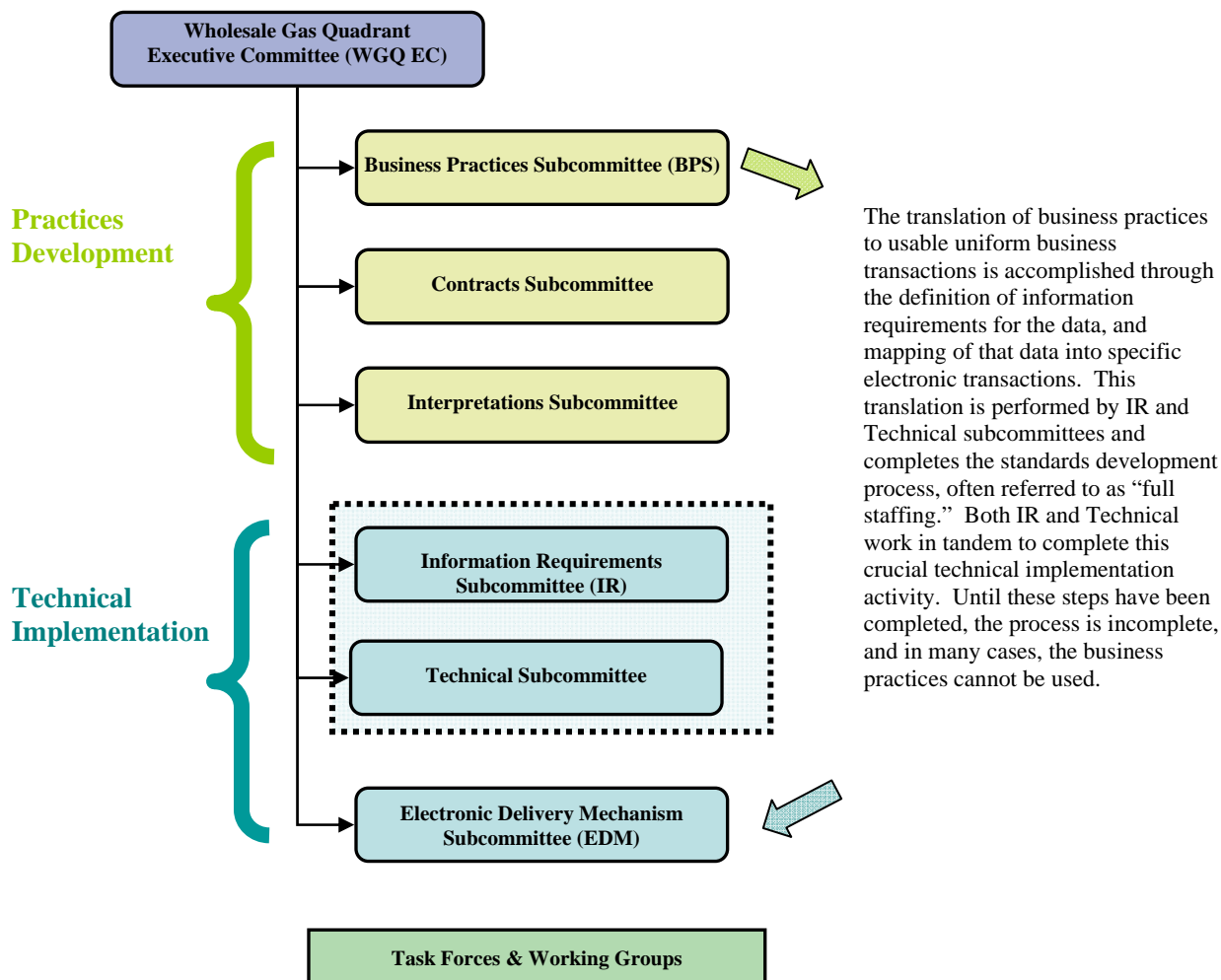
**Provisional Activities**

- 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, 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 10-4-11 with Redlined Changes Approved by the Retail ECs on 10-26-11

| Item Number & Description <sup>1</sup>   | Completion <sup>2</sup>                                | Assignment <sup>34</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 2012 at the earliest.   | 2012   | 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   | <del>3<sup>rd</sup></del> -2nd Q,<br>2012 <del>+</del> | 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,<br><del>2011</del> 2012             | 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   | 2nd Q, 2012  | BPS                                     |



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| Item Number & Description <sup>1</sup>   | Completion <sup>2</sup> | Assignment <sup>34</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: Completed  | 3 <sup>rd</sup> 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: Completed  | 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: Delayed – subcommittee inactive  | 2012                    | IR/TEIS                  |
| d. Develop Technical Electronic Implementation Standards and Data Dictionaries to support any Model Business Practices developed in (b) above<br>Status: Delayed – subcommittee inactive   | 2012                    | IR/TEIS                  |
| 6. Supplier Certification  | 4 <sup>th</sup> Q, 2011 | BPS                      |
| Develop practices to register/certify new Suppliers.<br>Status: Underway   |                         |                          |
| 7. Supplier Marketing Practices  |                         |                          |
| a. Phase 1: 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>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: Completed | 2 <sup>nd</sup> Q, 2011 | BPS                      |
| b. Phase 2: Review RXQ.23.3.8.3 of the Supplier Marketer Practices <sup>1</sup><br>Status: Completed   | 3 <sup>rd</sup> Q, 2011 | BPS                      |

<sup>1</sup> Please reference the August 17, 2011 Retail EC meeting minutes.



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| Item Number & Description <sup>1</sup>   | Completion <sup>2</sup>                                   | Assignment <sup>34</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: Completed  | 2 <sup>nd</sup> Q, 2011                                   | REQ PAP 10 SGS Subcommittee Energy Services Provider Interface Task Force |
| d. 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)<br>Status: Completed  | 2 <sup>nd</sup> Q, 2011                                   | REQ PAP 10 SGS Subcommittee Data Privacy Task Force                       |
| 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, this development is tied to the development for item 8(d). | <del>3<sup>rd</sup> Q, 2011</del> 2012                    | 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: Underway  | <del>4<sup>th</sup> Q, 2011</del> 1 <sup>st</sup> Q, 2012 | BPS   |
| b. Book 2 – Creditworthiness<br>Status: <del>Not Started</del> Underway  | <del>1<sup>st</sup> Q, 2011</del> 4 <sup>th</sup> Q, 2011 | BPS   |
| c. Book 3 – Billing and Payments<br>Status: Not Started  | 2 <sup>nd</sup> Q, 2012                                   | BPS   |
| d. Book 4 – Distribution Company – Supplier Disputes<br>Status: Not Started  | 2 <sup>nd</sup> Q, 2012                                   | BPS   |
| d1. Book 6 – Contracts<br>Status: Underway   | 4 <sup>th</sup> Q, 2011                                   | BPS   |
| e. Book 8 – Customer Information<br>Status: Not Started  | 3 <sup>rd</sup> Q, 2012                                   | BPS   |
| f. Book 9 – Customer Billing and Payment Notification via Uniform Electronic Transactions<br>Status: Not Started   | 4 <sup>th</sup> Q, 2012                                   | BPS   |



## North American Energy Standards Board

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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 10-4-11 with Redlined Changes Approved by the Retail ECs on 10-26-11

| Item Number & Description <sup>1</sup>  | Completion <sup>2</sup>  | Assignment <sup>34</sup>   |
|---|--|----------------------------|
| g. Book 10 – Customer Enrollment, Drop, and Account Information Change<br>Status: Not Started                               | 201 <del>3</del> <sup>2</sup>  | BPS                        |
| h. Book 11 - Customer Enrollment, Drop, and Account Information Change<br>Using a Registration Agent<br>Status: Not Started | 201 <del>3</del> <sup>2</sup>  | BPS                        |
| i. Book 12 – Customer Inquiries<br>Status: Not Started  | 201 <del>3</del> <sup>2</sup>  | BPS                        |
| j. Book 14 – Service Request, Disconnection and Reconnection in the<br>Registration Agent Model<br>Status: Not Started      | 201 <del>4</del> <sup>2</sup>  | BPS                        |
| 11. Create common interfaces and data structures necessary for enrolling DR sites into<br>a DR program                      |  |                            |
| a. Enrollment process model business practices development ( <a href="#">R10002</a> )<br>Status: Underway                   | <del>4<sup>th</sup> Q, 2011</del> <sup>1st</sup><br><del>Q, 2012</del> | REQ DSM-EE<br>Subcommittee |

### 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                |



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#### 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.

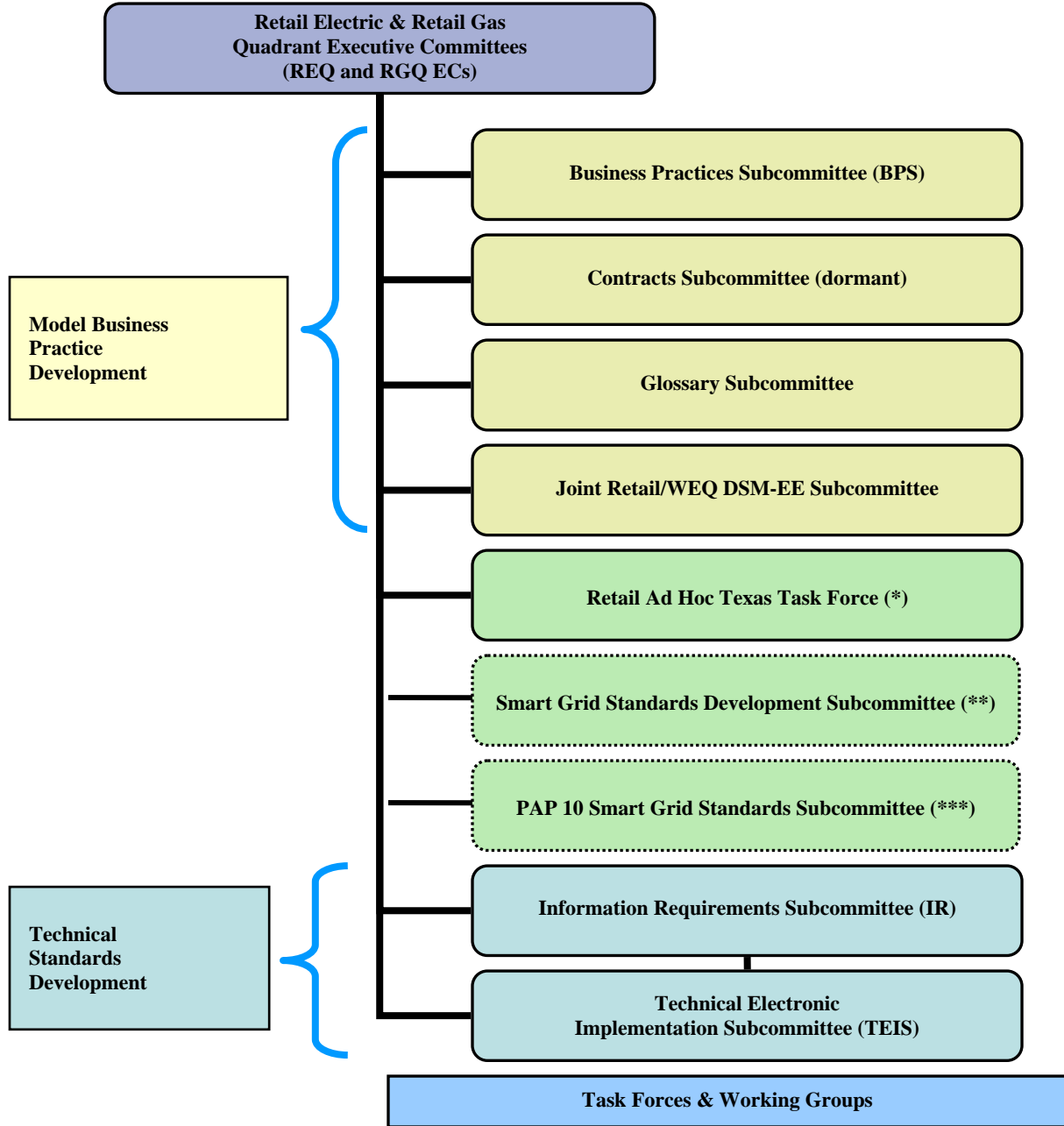
##### Retail Gas Quadrant Effort Only:

- 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: Judy Ray (REQ)

Glossary Subcommittee: Patrick Eynon (REQ)

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

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

(\*) The Retail Ad Hoc Texas Task Force may draft MBPs, process flows, implementation guides and technical standards supportive of the Registration Agent. 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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### NORTH AMERICAN ENERGY STANDARDS BOARD 2011 ANNUAL PLAN for the WHOLESALE ELECTRIC QUADRANT

Approved by the Board of Directors on September 22, 2011 With Changes Submitted by the WEQ Executive Committee

| 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   | 4 <sup>th</sup> Q, 2011 | BPS                     |
| b) Perform consistency review of WEQ-008 Transmission Loading Relief Business Practice Standards and develop recommendation. <sup>1</sup>  | 2012                    | 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) Coordinate with NERC on changes to the definition of Bulk Electric System <a href="#">NERC Project 2010-17</a><br>Status: Started (Initial review performed to determine whether NAESB should adopt revised NERC definition or maintain existing definition. Decision was to recommend adopting revised NERC definition.)   | 1 <sup>st</sup> Q, 2012 | SRS                     |
| <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>  |                         |                         |

<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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### NORTH AMERICAN ENERGY STANDARDS BOARD

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| Item Description  | Completion <sup>1</sup>                           | Assignment <sup>2</sup> |
|---|---|-------------------------|
| 1) Use of OASIS to Make Electronic Requests to Designate and Terminate Network Resource<br>Status: Underway   | <del>3<sup>rd</sup></del> 4 <sup>th</sup> Q, 2011 | OASIS                   |
| 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 | <del>3<sup>rd</sup></del> 4 <sup>th</sup> Q, 2011 | OASIS                   |
| 3) Masking of Designated Network Resource Operating Restrictions and Generating Cost Information<br>Status: Underway  | <del>3<sup>rd</sup></del> 4 <sup>th</sup> Q, 2011 | OASIS                   |
| 4) Procedural Requirements for Submitting Designations over new OASIS Functionality<br>Status: Underway   | <del>3<sup>rd</sup></del> 4 <sup>th</sup> Q, 2011 | OASIS                   |
| 5) Specify How Designated Network Service Informational Postings are Posted on OASIS<br>Status: Underway  | <del>3<sup>rd</sup></del> 4 <sup>th</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                                 | <del>3<sup>rd</sup></del> 4 <sup>th</sup> Q, 2011 | OASIS                   |
| 7) Procedural Requirements for Submitting Both Temporary and Indefinite Terminations of Network Resources<br>Status: Underway   | <del>3<sup>rd</sup></del> 4 <sup>th</sup> Q, 2011 | OASIS                   |
| 8) Procedures for Submitting and Processing Requests for Concomitant Evaluations of Transmission Requests and Temporary Terminations<br>Status: Underway                  | <del>3<sup>rd</sup></del> 4 <sup>th</sup> Q, 2011 | OASIS                   |
| ii) Group 4: Pre-Emption; Request No. R05019  |   |                         |
| 1) Pre-Emption<br>Status: Started   | 1st Q, 2012                                       | OASIS                   |
| 2) Request No. R05019<br>Status: Started  | 1st Q, 2012                                       | 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: Complete through the OASIS subcommittee, the WEQ EC approved July 8, 2011, ratification due August 11, 2011.                      | 2 <sup>nd</sup> Q, 2011 | OASIS                   |
|      | 2) Re-Bid Of Partial Service across Multiple Transmission Providers' Systems<br>Status: Complete through the OASIS subcommittee, the WEQ EC approved July 8, 2011, ratification due August 11, 2011                          | 2 <sup>nd</sup> Q, 2011 | OASIS                   |
|      | 3) Group DNR requests from a system with point-to-point requests on other systems for synchronization<br>Status: Complete through the OASIS subcommittee, the WEQ EC approved July 8, 2011, ratification due August 11, 2011 | 2 <sup>nd</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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|     | Item Description   | Completion <sup>1</sup> | Assignment <sup>2</sup> |
|-----|--|-------------------------|-------------------------|
| 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: Completed | 1 <sup>st</sup> Q, 2012 | OASIS                   |
|     | 2) Paragraphs 1627 of Order 890 – Posting of additional information on OASIS regarding firm transmission curtailments<br>Status: Not Started   | 1 <sup>st</sup> Q, 2012 | OASIS                   |
|     | 3) Redispatch Cost Posting to allow for posting of third party offers of planning redispatch services.<br>Status: Not Started  | 1 <sup>st</sup> Q, 2012 | 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>                |
|--|--|--|
| <p>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</p> <p>Status: Underway</p> | <p>3<sup>rd</sup>-4<sup>th</sup> Q, 2011</p> | <p>OASIS</p>                           |
| <p><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></p>  |  |  |
| <p>a) Develop and/or maintain business practice standards as needed for OASIS and electronic scheduling. Specific items to address include:</p>  |  |  |
| <p>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) and AP 2(a)(i))</p> <p>Status: Underway.</p>  | <p>3<sup>rd</sup>-4<sup>th</sup> Q, 2011</p> | <p>OASIS</p>                           |
| <p>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).</p> <p>Status: Underway.</p>   | <p>1<sup>st</sup> Q, 2012</p>                | <p>NAESB/NERC Administration, JESS</p> |
| <p>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>).</p> <p>Scoping <a href="#">statement</a> completed by SRS. There were a number of assignments from the Standards Request. The outstanding items are included below:</p>   |  |  |
| <p>1) Eliminate Masking of TSR tag source and sink when requested status is denied, withdrawn refused, displaced, invalid, declined, annulled or retracted</p> <p>Status: Not Started</p>  | <p>2012</p>                                  | <p>OASIS</p>                           |
| <p>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.</p> <p>Status: Underway (upon further development of this item by NAESB, a completion date will be determined)</p>   | <p>2012</p>                                  | <p>OASIS</p>                           |
| <p>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.</p> <p>Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)</p>   | <p>2012</p>                                  | <p>OASIS</p>                           |



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Approved by the Board of Directors on September 22, 2011 With Changes Submitted by the WEQ Executive Committee

|          | 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, and Project 2008-12 is delayed by NERC due to other higher priority development   | 2012                                      | 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</b> | <b>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<br>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<br>2010       | WEQ Section of the Joint WEQ/REQ DSM-EE Subcommittee |



## North American Energy Standards Board

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### NORTH AMERICAN ENERGY STANDARDS BOARD 2011 ANNUAL PLAN for the WHOLESALE ELECTRIC QUADRANT

Approved by the Board of Directors on September 22, 2011 With Changes Submitted by the WEQ Executive Committee

| 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<br><br>Retail Standards 4 <sup>th</sup> Q 2011 | 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: Completed  | 3rd Q, 2011  | 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: Started   | 1st Q, 2012  | 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: Started  | 1st Q, 2012  | 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                                 |
| 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              |



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**NORTH AMERICAN ENERGY STANDARDS BOARD**  
**2011 ANNUAL PLAN for the WHOLESALE ELECTRIC QUADRANT**  
**Approved by the Board of Directors on September 22, 2011 With Changes Submitted by the WEQ Executive Committee**

| Item Description  | Completion <sup>1</sup>                       | Assignment <sup>2</sup>                     |
|---|---|---|
| d) Develop standards to support PAP 10 – Standards Energy Usage Information   |   |   |
| i) Develop Information Model and related business practices<br>Status: Completed  | 4 <sup>th</sup> Q, 2010                       | Joint WEQ/REQ<br>PAP 10 SGS<br>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  | <del>2011</del> 1 <sup>st</sup> Q,<br>2012    | Joint WEQ/REQ<br>PAP 10 SGS<br>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: Completed   | 4 <sup>th</sup> 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: Started  | 4 <sup>th</sup> 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: <del>Underway—second report filed</del> Completed. | <del>Ongoing</del> 4 <sup>th</sup><br>Q, 2011 | 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 EPSC’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 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 September 22, 2011 with Changes Submitted by the WEQ Executive Committee

#### PROVISIONAL ITEMS

- 1 Develop and or modify business practices related to support of NERC effort on the NERC Resources and Transmission Adequacy (Project 2009-05 Resource Adequacy Assessment).
- 2 Develop business practices for allocating capacity among requests received during a submittal window Order 890-A ([Docket Nos. RM05-17-001, 002 and RM05-25-001, 002](#) - Paragraph 805)<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 greenhouse 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.

<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.

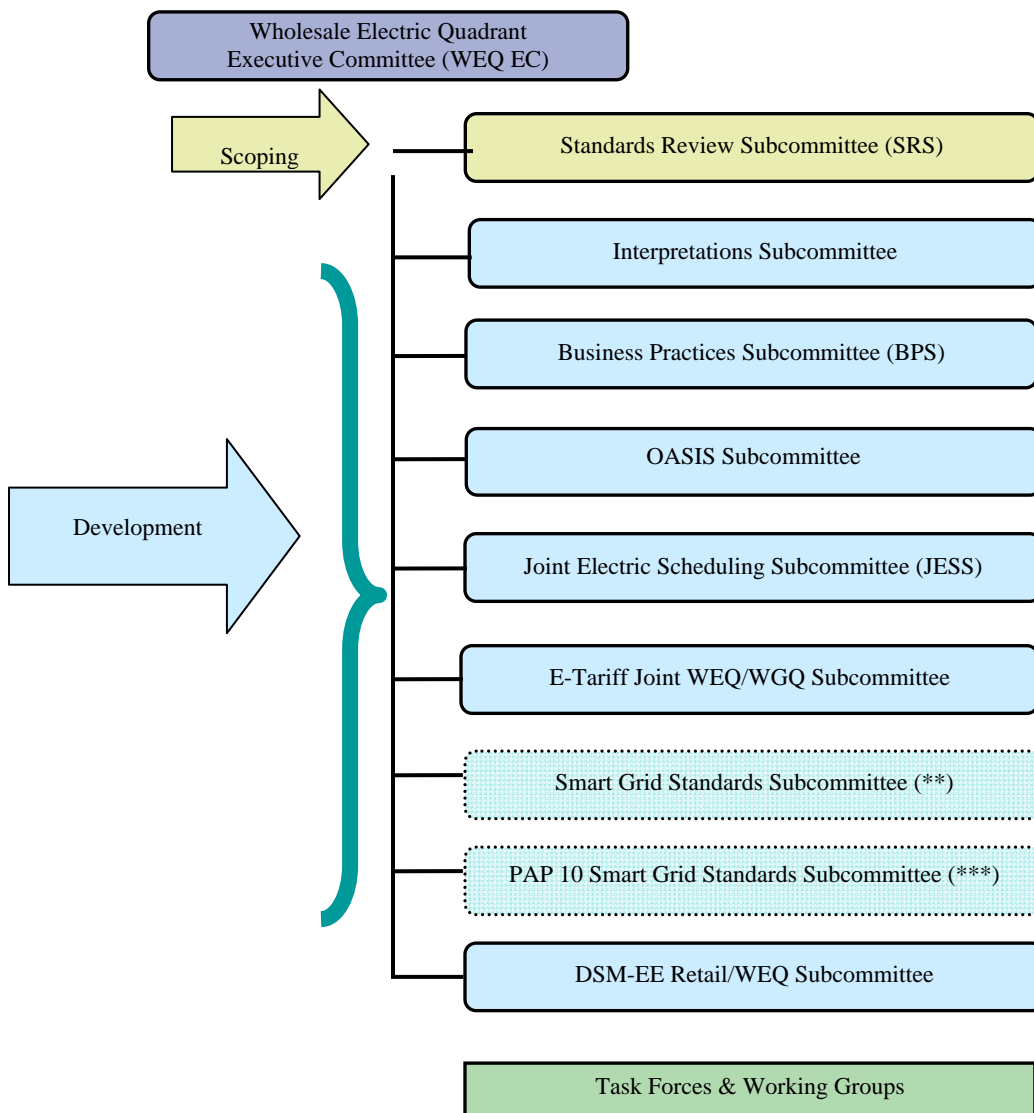
<sup>11</sup> Phase 2 of the Parallel Flow Visualization looks at developing options for and reporting of the most cost effective alternatives to achieve curtail obligations assigned during Phase 1.”



# North American Energy Standards Board

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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 (Retail), Roy True and Paul Wattles (WEQ)

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

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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:

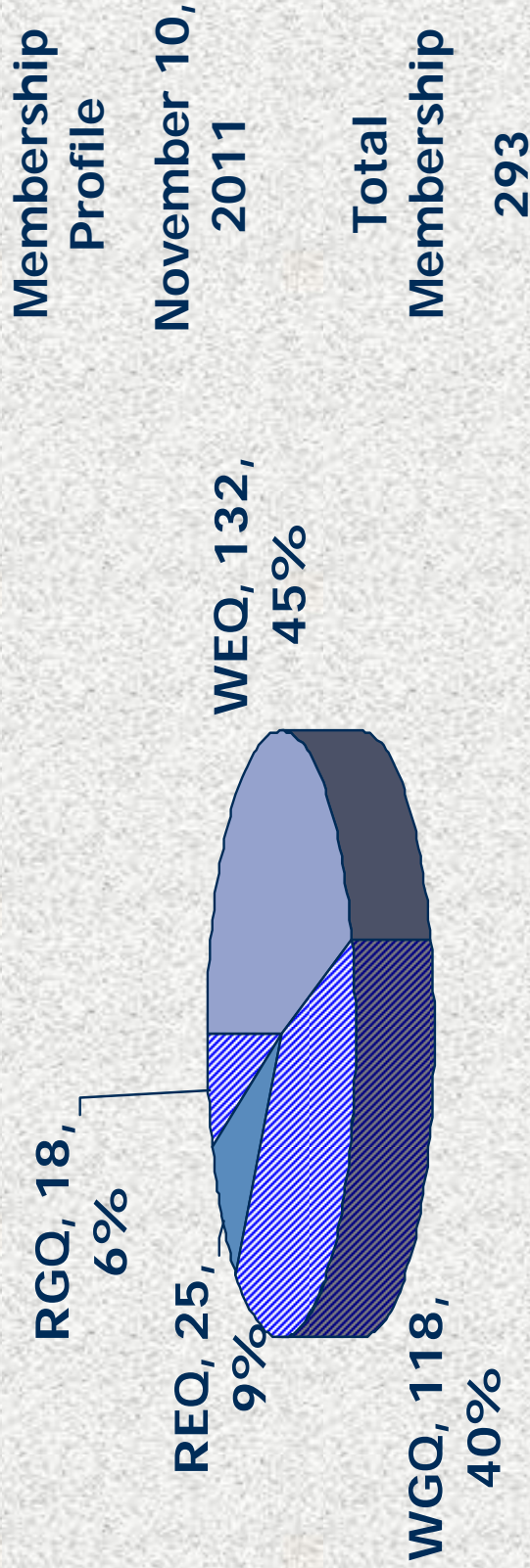
<sup>1</sup> Dates in the completion column are by end of the quarter for completion by the assigned committee, sub-committee or task force. The dates do not necessarily mean that the standards are fully staffed to be implementable by the industry, and/or ratified by membership. If one item is completed 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



| Quadrant Statistics | WEQ | WGO | REQ | RGQ | Total |
|---------------------|-----|-----|-----|-----|-------|
| Membership YE 2010  | 138 | 122 | 22  | 19  | 301   |
| Reclassification    | 0   | 0   | 0   | 0   | 0     |
| Net Change          | -6  | -4  | +3  | -1  | -8    |
| Membership YTD      | 132 | 118 | 25  | 18  | 293   |

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

**NAESB Membership Statistics – Changes by Quadrant for 2011 as of November 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                           | 17                       |
|   | Distributors                        | 16                       |
|   | Pipelines                           | 42                       |
|   | Producers                           | 12                       |
|   | Services                            | 31                       |
| <br>  |                                     |                          |
| <b>REQ Segments</b>   | <b>TOTAL</b>                        | <b>25</b>                |
|   | End Users/Public Agencies           | 10                       |
|   | Utilities                           | 7                        |
|   | Service Providers/Suppliers         | 8                        |
| <br>  |                                     |                          |
| <b>RGQ Segments</b>   | <b>TOTAL</b>                        | <b>18</b>                |
|   | End Users/Public Agencies           | 1                        |
|   | Distributors                        | 6                        |
|   | Service Providers/Suppliers         | 11                       |
| <br>  |                                     |                          |
| <b>WEQ Segments</b>   | <b>TOTAL</b>                        | <b>132</b>               |
|   | End Users                           | 8                        |
|   | Distributors                        | 19                       |
|   | Transmission                        | 45                       |
|   | Generation                          | 21                       |
|   | Marketers                           | 22                       |
|   | None Specified                      | 1                        |
|   | Independent Grid Operators/Planners | 9                        |
|   | Technology /Services                | 7                        |

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

|       |   |           |
|-------|---|-----------|
| WEQ   | New Members: 1-Nalcor Energy (Marketers/Brokers, Fed/State/Prov), 2- Vermont Public Service Board (End Users/Regulator); 3-Power Costs, Inc. (Technology and Services); 4-Stryve Advisors, LLC (Technology and Services)  | <b>4</b>  |
|       | 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); 4-Southern California Edison Company (Generation, IOU); 5-Brookfield Energy Marketing, Inc. (Marketers/Brokers, NIOU); 6-BP America Inc. (End Users, LIND); 7-Dairyland Power Cooperative (Transmission, Muni/Coop); 8-RRI Energy Services, Inc. (Generation, Merchant); 9 – FirstEnergy Solutions (Marketers/Brokers, IOU); 10 – South Carolina Electric & Gas Company (Marketers/Brokers, IOU) | <b>10</b> |
| WGQ   | New Members: 1-PAA Natural Gas Storage, LLC (Services); 2-Caerus Energy, LLC (Services); 3-QEP Resources, Inc. (Producer); 4-Energy Solutions International Inc. (Services); 5-Marathon Petroleum Company LP (End Users)  | <b>5</b>  |
|       | 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); 5-Laclede Gas Co. (LDC); 6-National Grid Gas Distribution Companies (LDC); 7-Ballard Natural Gas, LLC (Services); 8-SolArc, Inc. (Services); 9-Vega Energy Partners, Ltd. (Services)   | <b>9</b>  |
| REQ   | New Members: 1-Honeywell International Inc. (End Users/Public Agencies), 2-Vermont Public Service Board (End Users/Public Agencies); 3-ZigBee Alliance (End Users/Public Agencies); 4-Energy Information Standards Alliance (End Users/Public Agencies)   | <b>4</b>  |
|       | Member Resignations: 1 – Navigant Consulting, Inc. (End Users/Public Agencies)  | <b>1</b>  |
| RGQ   | New Members:  | <b>0</b>  |
|       | Member Resignations: 1-Sierra Southwest Coop (Service Providers/Suppliers)  | <b>1</b>  |
| TOTAL | New Members:  | <b>13</b> |
|       | Member Resignations:  | <b>21</b> |

North American Energy Standards Board Membership List  
As of November 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  | Energy Information Standards Alliance                    | e                | Christopher Kotting                       |                      |
| 10                                       | Exelon Energy Delivery                                   | u                | David Geraghty                            |                      |
| 11                                       | Honeywell International, Inc.                            | e                | Steve Gabel                               |                      |
| 12                                       | ista   | s                | Judy Bailey, J. Cade Burks, Jennifer Teel |                      |
| 13                                       | Maryland Public Service Commission                       | e                | Dan Norfolk                               |                      |
| 14                                       | National Association of Regulatory Utility Commissioners | e                | James Bradford Ramsay                     |                      |
| 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                                       | Vermont Public Service Board                             | e                | Pam Stonier                               |                      |
| 24                                       | Wisconsin Public Service Corporation                     | u                | Dennis Derricks, Ken Thiry                |                      |
| 25                                       | ZigBee Alliance  | e                | Tobin Richardson                          |                      |
| <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  |                      |

<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 November 10, 2011

|    | Organization  | Seg <sup>1</sup> | Contact   | Sub-Seg <sup>2</sup> |
|----|---|------------------|---|----------------------|
| 6  | American Midstream Partners, LP                               | s                | Marty Patterson   |                      |
| 7  | ANR Pipeline Company  | s                | Sandy Meyers, Joseph E. Pollard, Rene Staeb, Debbie Forth, Carol Wehlmann, Radha Raman, Mary Doss |                      |
| 8  | Arizona Public Service Company                                | e                | Tom Carlson, Kelly Daly   |                      |
| 9  | Atmos Energy  | pl               | Steve Easley  |                      |
| 10 | Baltimore Gas & Electric Co.                                  | l                | Phil Precht   |                      |
| 11 | Barclays Bank PLC   | s                | Guy Kern-Martin, Michelle Hiley   |                      |
| 12 | Bentek Energy, LLC  | s                | E. Russell Braziel  |                      |
| 13 | BG Energy Merchants, LLC                                      | s                | Martha Braddy, Susan Bailey, David Buckley, Victoria Versen                                       |                      |
| 14 | Boardwalk Pipelines, LP                                       | pl               | Randy Young   |                      |
| 15 | Boeing Co., The   | e                | Tina Burnett  |                      |
| 16 | BP Energy   | pr               | Mark Stultz, Rhonda Denton  |                      |
| 17 | Caerus Energy, LLC  | s                | Doug Deaton   |                      |
| 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 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               | Catherine R. Abercrombie  |                      |
| 34 | Consolidated Edison Company of NY                             | l                | Scott Butler, Paul Olmsted  |                      |
| 35 | Constellation Energy Commodities Group Inc.                   | s                | Lisa Simpkins, Joseph Kirwan, Andrea Kullman, 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, Josephina Nguyen, Mike Dionisio   |                      |
| 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, Marcia L. Hissong, Ann Marie Jambor, Cynthia        |                      |

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

|    | Organization   | Seg <sup>1</sup> | Contact  | Sub-Seg <sup>2</sup> |
|----|--|------------------|--|----------------------|
|    |  |                  | Klots, Shelley Greene                            |                      |
| 44 | Eastern Shore Natural Gas Company  | pl               | Elaine B. Bittner                                |                      |
| 45 | El Paso Exploration & Production Company                                       | pr               | Stephanie Karm                                   |                      |
| 46 | El Paso Natural Gas  | pl               | William Griffith                                 |                      |
| 47 | Enbridge (U.S.) Inc.   | pl               | Brad Petzold                                     |                      |
| 48 | Encana Marketing (USA) Inc.  | s                | Keith Sappenfield, Jeff Jarvis                   |                      |
| 49 | Encana Oil & Gas (USA) Inc.  | pr               | Keith Sappenfield, Jeff Jarvis                   |                      |
| 50 | Energy Solutions International Inc.  | s                | Chuck McClure                                    |                      |
| 51 | Energy Transfer Partners, L.P.   | pl               | Josie Castrejana, Miki Kolobara                  |                      |
| 52 | Entergy Services, Inc.   | e                | Laura Berryman, Terry Shields                    |                      |
| 53 | Enterprise Products Partners L.P.  | pl               | Jeff Molinaro                                    |                      |
| 54 | Equitrans, LP  | pl               | Paul W. Diehl                                    |                      |
| 55 | ExxonMobil Gas & Power Marketing Company a division of Exxon Mobil Corporation | pr               | Randy E. Parker, John W. Poe                     |                      |
| 56 | Florida Power & Light Company  | e                | Tim Gerrish, Art Morris                          |                      |
| 57 | Gas Transmission Northwest Corp.   | pl               | Joseph Pollard                                   |                      |
| 58 | Golden Pass Pipeline, LLC  | pl               | Vickie Long                                      |                      |
| 59 | Great Lakes Gas Transmission   | pl               | Joseph Pollard                                   |                      |
| 60 | Iberdrola USA Management Corporation   | l                | Mark Marini                                      |                      |
| 61 | Imperial Irrigation District   | e                | Susie Carrillo                                   |                      |
| 62 | Integrus Energy Group, Inc.  | l                | David E. Wear                                    |                      |
| 63 | Iroquois Gas Transmission System   | pl               | Tom Gwilliam                                     |                      |
| 64 | JP Morgan Ventures Energy Corp   | S                | Paul Tramonte                                    |                      |
| 65 | Kern River Gas Transmission Co   | pl               | Brenda Horton                                    |                      |
| 66 | Latitude Technologies  | s                | Leigh Spangler                                   |                      |
| 67 | Louis Dreyfus Energy Services  | s                | Tara Liscombe, 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 | Marathon Petroleum Company LP  | e                | Laddie Weems                                     |                      |
| 72 | Mewbourne Oil Company  | pr               | Michael F. Shepard                               |                      |
| 73 | National Fuel Gas Supply Corp.   | pl               | Deborah Kupczyk                                  |                      |
| 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, Michael D. Watson                |                      |
| 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               | Bob Jones  |                      |

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

|   | Organization   | Seg <sup>1</sup> | Contact  | Sub-Seg <sup>2</sup> |
|---|--|------------------|--|----------------------|
| 84  | OGE Energy Resources, Inc.                                   | s                | Cary Metz  |                      |
| 85  | ONEOK  | l                | Richard Tangeman   |                      |
| 86  | ONEOK Partners GP, LLC                                       | pl               | Teri Tingler, Lisa Nishimuta                               |                      |
| 87  | PAA Natural Gas Storage, LLC                                 | s                | Eileen W. Kisluk   |                      |
| 88  | Panhandle Eastern Pipe Line                                  | pl               | William Grygar, Kim Van Pelt                               |                      |
| 89  | PECO Energy Co.  | l                | Carlos Thillet   |                      |
| 90  | Pemex Gas Y Petroquimica Basica                              | s                | Juan Enrique Gonzalez Azuara                               |                      |
| 91  | Peoples Gas System (A division of Tampa Electric Co)         | l                | Wraye Grimard  |                      |
| 92  | Portland Natural Gas Transmission System                     | pl               | David Haag   |                      |
| 93  | PPL EnergyPlus, LLC  | e                | Anne Lovett  |                      |
| 94  | QEP Resources, Inc.  | pr               | Steve Stanton  |                      |
| 95  | Questar Pipeline Co.   | pl               | Jerry H. Gross   |                      |
| 96  | Quorum Business Solutions Inc.                               | s                | Seth Peters, Michael Lewis                                 |                      |
| 97  | Salt River Project Agricultural Improvement & Power District | e                | Lori-Lynn C. Pennock                                       |                      |
| 98  | Sempra Energy - Southern California Gas Co.                  | l                | Lee Stewart, Rodger Schwecke                               |                      |
| 99  | Sempra Pipelines & Storage Corp.                             | pl               | Katy Mirr  |                      |
| 100   | Sequent Energy Management, L.P.                              | s                | Pat Metteauer  |                      |
| 101   | Shell Energy North America (US), L.P.                        | s                | Eric Gillaspie   |                      |
| 102   | SNL Financial  | s                | Katrina Sumey  |                      |
| 103   | Southern California Edison Company                           | e                | Roman Bakke, Rob Grimm                                     |                      |
| 104   | Southern Company Services, Inc.                              | e                | Alan Kilpatrick, Bronco Kilgore                            |                      |
| 105   | Southern Star Central Gas Pipeline                           | pl               | Philip Rullman, Tim L. Thompson                            |                      |
| 106   | Southwest Gas Corporation                                    | l                | Larry Black, Mark Anderson, Mark Litwin, John Olenick      |                      |
| 107   | Spectra Energy Transmission                                  | pl               | Richard Kruse, Kathryn Burch                               |                      |
| 108   | SunGard  | s                | Sylvia Munson  |                      |
| 109   | Tennessee Gas Pipeline Company                               | pl               | Sue Barry, Mark Gracey                                     |                      |
| 110   | Tennessee Valley Authority                                   | e                | Valerie Crockett   |                      |
| 111   | Tiger Natural Gas  | s                | Tracy Phillips   |                      |
| 112   | TransCanada Pipelines  | pl               | Bob Jones  |                      |
| 113   | Transwestern Pipeline Company, LLC                           | pl               | Blair V. Lichtenwalter, Mary Draemer, David Mendoza        |                      |
| 114   | Vector Pipeline L.P.   | pl               | Amy Bruhn  |                      |
| 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 |                      |
| <b>Wholesale Electric Quadrant Members:</b> |  |                  |  |                      |
| 1   | 8760, Inc.   | ts               | Jim Buccigross   |                      |
| 2   | ACES Power Marketing LLC                                     | m                | Roy J. True, Amadou Fall                                   | muni                 |

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

|    | Organization                                  | Seg <sup>1</sup> | Contact                                  | Sub-Seg <sup>2</sup> |
|----|---|------------------|--|----------------------|
| 3  | Alabama Municipal Electric Authority          | d                | Ray Phillips                             | muni                 |
| 4  | Alberta Electric System Operator              | i                | Diana Pommen                             |                      |
| 5  | American Electric Power Service Corp.         | g                | Joanne Goza, Joseph Hartsoe, Phil Cox    | iou                  |
| 6  | American Municipal Power, Inc.                | m                | Chris Norton, Alice Walker               | muni                 |
| 7  | American Public Power Association             | d                | Allen Mosher                             | muni                 |
| 8  | Arizona Public Service Company                | t                | Robert Bean                              | iou                  |
| 9  | Arkansas Electric Cooperative Corporation     | g                | Ricky Bittle                             | muni                 |
| 10 | 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 | California Department of Water Resources      | g                | Glenn Solberg, Chi Doan                  | fed                  |
| 21 | California ISO                                | i                | Brian Jacobsen                           |                      |
| 22 | Central Electric Power Cooperative            | d                | Arthur Fusco                             | muni                 |
| 23 | Cleco Power, LLC                              | t                | Cindy Guillot                            | iou                  |
| 24 | Comprehensive Energy Services                 | e                | Jim Templeton                            | enduse               |
| 25 | Consolidated Edison Company of New York, Inc. | t                | Scott Butler, Chris Fan                  | iou                  |
| 26 | Consumers Energy Company                      | d                | Andrew C. Dotterweich                    | iou                  |
| 27 | Deseret Power Electric Co-op                  | g                | Curt Winterfeld                          | muni                 |
| 28 | Dominion Energy Marketing, Inc.               | g                | Lou Oberski                              | iou                  |
| 29 | Duke Energy Americas, LLC (DEA)               | g                | Walt Yeager                              | iou                  |
| 30 | Duke Energy Corp.                             | d                | Alan Pritchard                           | iou                  |
| 31 | Dynegy Power Marketing, Inc.                  | g                | Ben Trammell                             | merc                 |
| 32 | Edison Electric Institute                     | n                | David Owens, Dave Dworzak, James P. Fama | n                    |
| 33 | Electric Reliability Council of Texas (ERCOT) | i                | Bill Blevins, Paul Wattles, Joel Mickey  |                      |
| 34 | Empire District Electric Company, The         | t                | Bary K. Warren                           | iou                  |
| 35 | Energy Curtailment Specialists, Inc. (ECS)    | e                | Marie Pieniazek                          | enduse               |
| 36 | EnerNOC, Inc.                                 | e                | Aaron Breidenbaugh                       | enduse               |
| 37 | Entergy Services, Inc.                        | t                | Edward J. Davis, Narinder Saini          | iou                  |
| 38 | Exelon Generation - Power Team                | m                | Jack Crowley                             | iou                  |
| 39 | First Energy Service Company                  | d                | Robert M. Martinko, Thomas C. Burgess    | iou                  |
| 40 | Florida Municipal Power Agency                | g                | Frank Gaffney, Dan O'Hagan               | muni                 |
| 41 | Florida Municipal Power Agency                | d                | Frank Gaffney, Dan O'Hagan               | muni                 |
| 42 | Florida Power & Light Company                 | m                | Jim Drake, Tom Hartman                   | iou                  |
| 43 | Florida Power & Light Company                 | t                | Marty Mennes, Bob Birch                  | iou                  |

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

|    | Organization   | Seg <sup>1</sup> | Contact  | Sub-Seg <sup>2</sup> |
|----|--|------------------|--|----------------------|
| 44 | Georgia Transmission Corporation   | t                | Patrick McGovern   | muni                 |
| 45 | Hydro – Quebec Transenergie  | t                | Glenn Sylvain  | fed                  |
| 46 | Iberdrola USA Management Corporation   | t                | Mark Marini  | iou                  |
| 47 | Idaho Power Company  | t                | Kathy Anderson   | iou                  |
| 48 | Independent Electricity System Operator (IESO)                               | i                | Cristian Dragnea, Biju Gopi                                |                      |
| 49 | Indiana Municipal Power Agency   | g                | Scott Berry  | muni                 |
| 50 | ISO New England, Inc.  | i                | Matthew F. Goldberg  |                      |
| 51 | LG&E and KU Services Company   | t                | Derek A. Rahn, Larry Monday                                | IOU                  |
| 52 | Lincoln Electric System  | g                | Douglas Bantam   | muni                 |
| 53 | Los Angeles Department of Water and Power                                    | t                | Mohammed Johar Beshir                                      | muni                 |
| 54 | Los Angeles Department of Water and Power                                    | m                | Bradford L. Packer, Joel F. Cordero                        | muni                 |
| 55 | Manitoba Hydro   | t                | Tyler Young  | fed                  |
| 56 | Manitoba Hydro   | m                | Shannon Jones  | fed                  |
| 57 | Michigan Public Power Agency   | d                | James R. Nickel, Peter J. Schimpke                         | muni                 |
| 58 | MidAmerican Energy Company   | m                | Dennis Kimm  | iou                  |
| 59 | Midwest Independent Transmission System Operator                             | i                | William (Bill) Phillips, Ed Skiba                          |                      |
| 60 | Midwest Reliability Organization   | t                | Dan Schoenecker  | at large             |
| 61 | Missouri River Energy Services   | d                | Brian Zavesky  | muni                 |
| 62 | Nalcor Energy  | m                | Brad Coady   | fed                  |
| 63 | National Association of Regulatory Utility Commissioners                     | e                | Lou Ann Westerfield  | reg                  |
| 64 | National Grid  | t                | Edward M. Kremzier   | iou                  |
| 65 | National Institute of Standards and Technology                               | ts               | David A. Wollman   |                      |
| 66 | National Rural Electric Cooperative Assoc.                                   | d                | Paul McCurley  | muni                 |
| 67 | Nebraska Public Power District   | t                | Don Schmit   | muni                 |
| 68 | New York Independent System Operator (NYISO)                                 | i                | Rana Mukerji, Donna Pratt                                  |                      |
| 69 | New York State Reliability Council   | d                | P. Donald Raymond  | at large             |
| 70 | North American Electric Reliability Corporation                              | d                | David Taylor, Andy Rodriguez                               | at large             |
| 71 | North Carolina Electric Membership Corporation                               | d                | David Beam, Diane Huis, Robert S. Beadle, James R. Manning | muni                 |
| 72 | Northeast Utilities Service Company  | t                | David Boguslawski, Calvin A. Bowie                         | iou                  |
| 73 | Northwestern Corporation   | t                | Mike Cashell   | iou                  |
| 74 | NRG Energy, Inc.   | g                | Alan Johnson, Jennifer J. Vosburg, Elizabeth Killinger     | merc                 |
| 75 | NV Energy  | m                | Sheryl Torrey  | iou                  |
| 76 | NV Energy, Inc.  | t                | Patricia Englin  | iou                  |
| 77 | Open Access Technology International, Inc.                                   | e                | Michehl Gent   | at large             |
| 78 | Open Access Technology International, Inc.                                   | t                | Paul R. Sorenson   | at large             |
| 79 | Organization for the Advancement of Structured Information Standards (OASIS) | ts               | Laurent M. Liscia  |                      |
| 80 | PacifiCorp   | m                | John Apperson  | iou                  |
| 81 | PacifiCorp   | t                | Sarah E. Edmonds   | iou                  |
| 82 | PHI Power Delivery   | t                | Scott Razze  | iou                  |

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

|     | Organization   | Seg <sup>1</sup> | Contact  | Sub-Seg <sup>2</sup> |
|-----|--|------------------|--|----------------------|
| 83  | PJM Interconnection  | i                | Patrick Brown, Cathy Wesley  |                      |
| 84  | Portland General Electric                                      | t                | Frank Afranji, John Walker, Johnny Useldinger  | iou                  |
| 85  | Power Costs, Inc. (PCI)  | ts               | TJ Ferreira  |                      |
| 86  | Powerex Corp   | m                | Michael L McWilliams, Sharole Tylor  | fed                  |
| 87  | PowerSouth Energy Cooperative                                  | d                | William Ronald Graham  | muni                 |
| 88  | PPL Electric Utilities Corporation                             | t                | Randy Kreider  | iou                  |
| 89  | Progress Energy  | m                | John Sturgeon  | iou                  |
| 90  | Progress Energy  | t                | Phillip W. Lewis, Michael Anthony, Lee Schuster  | iou                  |
| 91  | Public Service Company of New Mexico                           | m                | Steven Maestas, Darren Wilkins, Patricia Merville, Roger Vaughn                                | iou                  |
| 92  | Public Utilities Commission of Ohio                            | e                | Christopher Kotting  | reg                  |
| 93  | Puget Sound Energy, Inc.                                       | t                | George Marshall, Bob Harshbarger   | iou                  |
| 94  | Sacramento Municipal Utility District                          | d                | Steve Sorey  | muni                 |
| 95  | Salt River Project Agricultural Improvement and Power District | t                | Luke O'Dwyer, Michael J. Pfeister  | fed                  |
| 96  | Salt River Project Agricultural improvement and Power District | m                | Richard Lehman   | fed                  |
| 97  | San Diego Gas & Electric Company                               | t                | Patricia vanMidde  | iou                  |
| 98  | Santee Cooper  | t                | Tom Abrams   | fed                  |
| 99  | Seattle City Light   | d                | Cathy Leone-Woods  | muni                 |
| 100 | Seminole Electric Cooperative, Inc.                            | m                | Steve Wallace  | muni                 |
| 101 | Shell Energy America (US), L.P.                                | m                | Robert Reilley, Paul Kerr  | niou                 |
| 102 | Shift Research, LLC  | e                | Jesse D. Hurley  | at large             |
| 103 | South Carolina Electric & Gas Company                          | t                | S. Porcher Stoney, James T. Starling, Jr. , Sonya Green-Sumpter, Matt Bullard, Kevin Spitzform | iou                  |
| 104 | Southern California Edison                                     | t                | Weston Williams  | iou                  |
| 105 | Southern Company Services, Inc.                                | g                | John Ciza  | iou                  |
| 106 | Southern Company Services, Inc.                                | m                | Joel Dison   | iou                  |
| 107 | Southern Company Services, Inc.                                | t                | Joshua Jenkins, Terry Coggins, JT Wood, James Y. Busbin, Corey Sellers, Antonio Grayson        | iou                  |
| 108 | Southwest Power Pool   | i                | Carl Monroe, Michael Desselle, Charles Yeung   |                      |
| 109 | Southwest Transmission Cooperative, Inc.                       | t                | James Burson   | muni                 |
| 110 | Southwestern Power Administration                              | t                | Tracey Stewart   | fed                  |
| 111 | Stryve Advisors, LLC   | ts               | Rachel Bryan   |                      |
| 112 | SunGard  | ts               | Andrew Tritch, Rick Lentz  |                      |
| 113 | Tenaska, Inc.  | g                | Scott Helyer, William Simpson  | merc                 |
| 114 | Tennessee Valley Authority                                     | g                | Kathy York   | fed                  |
| 115 | Tennessee Valley Authority                                     | m                | Luis A. (Tony) Suarez, Valerie Crockett  | fed                  |
| 116 | Tennessee Valley Authority                                     | t                | Chuck Feagans  | fed                  |
| 117 | Tri-State Generation and Transmission Association, Inc.        | t                | Carla Javornik, Doug Reese   | muni                 |
| 118 | Tri-State G&T Association, Inc.                                | g                | Janelle Marriott   | muni                 |
| 119 | Tucson Electric Power Company                                  | t                | Raquel Aguilar, Judy Fregoso, Ed Beck, Amy Welander  | iou                  |

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

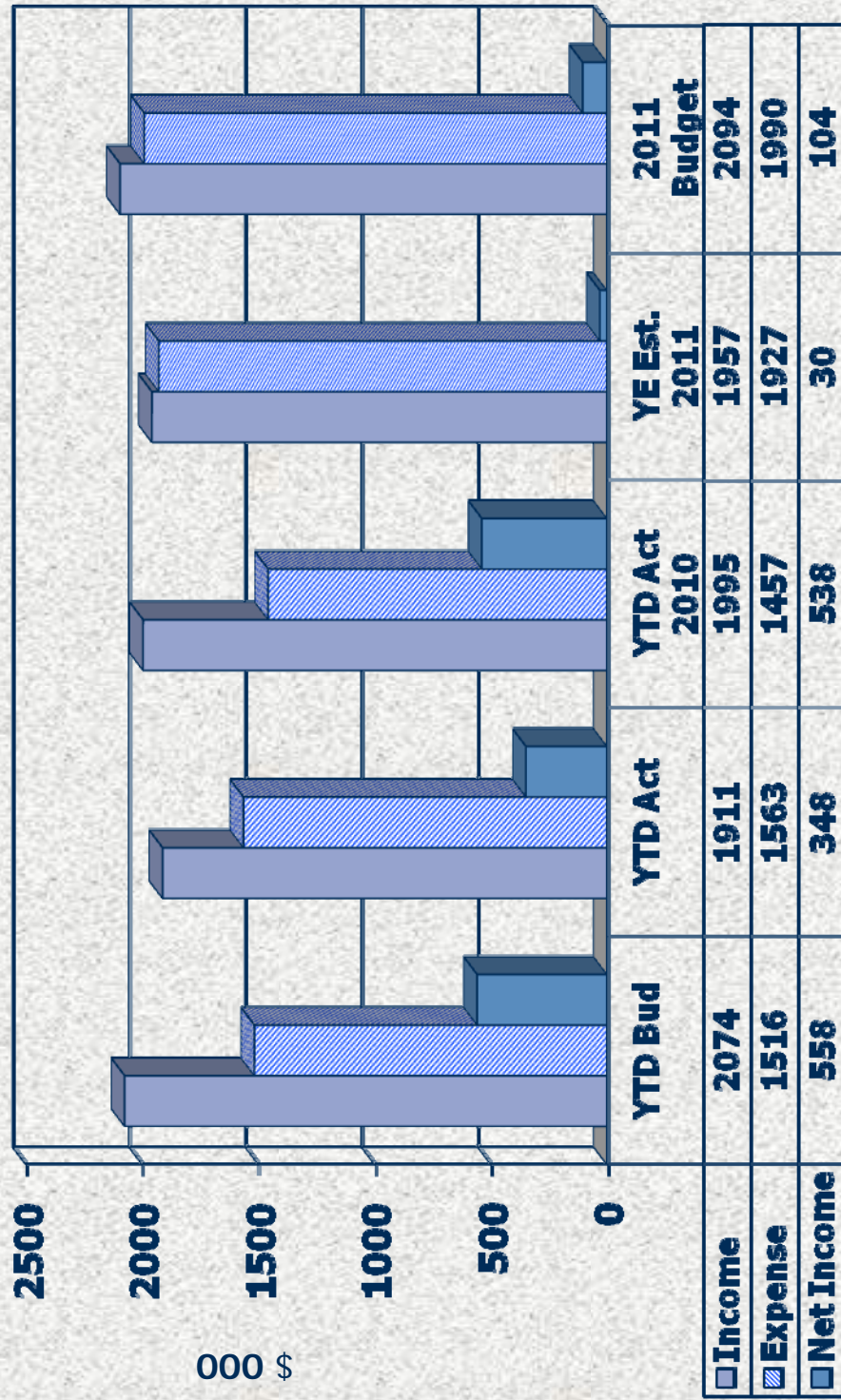
|     | Organization                             | Seg <sup>1</sup> | Contact   | Sub-Seg <sup>2</sup> |
|-----|--|------------------|---|----------------------|
| 120 | United Illuminating Company, The         | t                | Jim Clemente, Laurie Lombardi                       | iou                  |
| 121 | Utility Integration Solutions, Inc.      | ts               | Scott Coe   |                      |
| 122 | Vermont Public Power Supply Authority    | g                | William J. Gallagher                                | muni                 |
| 123 | Vermont Public Service Board             | e                | Pam Stonier   | reg                  |
| 124 | We Energies (Wisconsin Electric)         | d                | Linda Horn  | iou                  |
| 125 | We Energies (Wisconsin Electric)         | g                | James R. Keller                                     | iou                  |
| 126 | Westar Energy, Inc.                      | g                | Shah Hossain, Grant Wilkerson                       | iou                  |
| 127 | Western Area Power Administration        | t                | JB Hite   | fed                  |
| 128 | Western Area Power Administration        | m                | Jeffrey Ackerman                                    | fed                  |
| 129 | Western Electricity Coordinating Council | t                | Michelle Mizumori, Craig L. Williams                | at large             |
| 130 | Wisconsin Public Service Corporation     | g                | Christopher Plante, Charles W. Severance, Neal Balu | iou                  |
| 131 | WPPI Energy                              | d                | Mike Stuart   | muni                 |
| 132 | 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 | SouthStar Energy Corp                      | s | Michael Braswell, Joseph C. Monroe |
| 15 | Sprague Energy Corp.                       | s | Paul Scoff                         |
| 16 | Systrends USA                              | s | Dave Darnell                       |
| 17 | UGI Utilities, Inc.                        | d | Paul Szykman                       |
| 18 | Vectren Retail, LLC                        | s | Tami Wilson                        |

# North American Energy Standards Board Board of Directors Meeting – 12-8-11

As of September 2011 Accrual Based Income and Expenses (\*)



\* The YTD Actuals reflect deferred rent expense of \$ 34,157. Should this not be included, the expenses would be \$ 1,529,000 and the net income would be \$ 572,000. Carrying over to the yearend estimates, the net income would be \$ 64,000.



## North American Energy Standards Board

801 Travis, Suite 1675, Houston, Texas 77002

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Home Page: [www.naesb.org](http://www.naesb.org)

### 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 31, 2011:** Membership in March is 300. Membership by quadrant is: 120 (WGQ), 24 (REQ), 19 (RGQ), 137 (WEQ). Year to date, we have had six new memberships (2 – WEQ, 2 – REQ, 0 – RGQ, 2 – 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)). In March, we had five new members, Nalcor Energy (WEQ, Marketers/Brokers, Fed/State/Prov), Vermont Public Service Board (WEQ, End Users/Regulator), PAA Natural Gas Storage, LLC (WGQ, Services), Caerus Energy, LLC (WGQ, Services) and Vermont Public Service Board (REQ, End Users/Public Agencies) and one member resignation Reliance Gas Transportation Infrastructure Limited (WGQ, Pipeline).
- April 30, 2011:** Membership in April is 300. Membership by quadrant is: 120 (WGQ), 24 (REQ), 19 (RGQ), 137 (WEQ). Year to date, we have had six new memberships (2 – WEQ, 2 – REQ, 0 – RGQ, 2 – 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)). In April, we had no new members and no member resignations.
- May 31, 2011:** Membership in May is 297. Membership by quadrant is: 118 (WGQ), 24 (REQ), 19 (RGQ), 136 (WEQ). Year to date, we have had seven new memberships (2 – WEQ, 2 – REQ, 0 – RGQ, 3 – WGQ) and 11 member resignations (7 – WGQ, 0 – REQ, 0 – RGQ, 4 – WEQ). We began the year with 301 members (122 (WGQ), 22 (REQ), 19 (RGQ), 138 (WEQ)). In May, we had one new member, QEP Resources, Inc. (Producer) and four member resignations, Southern California Edison Company (WEQ, Generation, IOU), Laclede Gas Co. (WGQ, LDC), National Grid Gas Distribution Companies (WGQ, LDC) and Ballard Natural Gas, LLC (WGQ, Services).
- June 30, 2011:** Membership in June is 296. Membership by quadrant is: 119 (WGQ), 24 (REQ), 19 (RGQ), 134 (WEQ). Year to date, we have had nine new memberships (2 – WEQ, 2 – REQ, 0 – RGQ, 5 – WGQ) and 14 member resignations (8 – WGQ, 0 – REQ, 0 – RGQ, 6 – WEQ). We began the year with 301 members (122 (WGQ), 22 (REQ), 19 (RGQ), 138 (WEQ)). In June, we had two new member, Energy Solutions International Inc. (WGQ, Services) and Marathon Petroleum Company LP (WGQ, End Users) and three member resignations, Brookfield Energy Marketing Inc. (WEQ, Marketers/Brokers, NIOU), BP America Inc. (WEQ, End Users, LIND) and SolArc, Inc. (WGQ, Services).
- July 31, 2011:** Membership in July is 296. Membership by quadrant is: 119 (WGQ), 24 (REQ), 19 (RGQ), 134 (WEQ). Year to date, we have had nine new memberships (2 – WEQ, 2 – REQ, 0 – RGQ, 5 – WGQ) and 14 member resignations (8 – WGQ, 0 – REQ, 0 – RGQ, 6 – WEQ). We began the year with 301 members (122 (WGQ), 22 (REQ), 19 (RGQ), 138 (WEQ)). In July, we had no new members or member resignations.



## North American Energy Standards Board

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- August 31, 2011:** Membership in July is 293. Membership by quadrant is: 118 (WGQ), 24 (REQ), 19 (RGQ), 132 (WEQ). Year to date, we have had nine new memberships (2 – WEQ, 2 – REQ, 0 – RGQ, 5 – WGQ) and 17 member resignations (9 – WGQ, 0 – REQ, 0 – RGQ, 8 – WEQ). We began the year with 301 members (122 (WGQ), 22 (REQ), 19 (RGQ), 138 (WEQ)). In July, we had no new members. We had three member resignations Dairyland Power Cooperative (WEQ, Transmission, Muni/Coop); RRI Energy Services, Inc. (WEQ, Generation, Merchant) and Vega Energy Partners, Ltd. (WGQ, Services)
- September 30, 2011:** Membership in September is 292. Membership by quadrant is: 118 (WGQ), 24 (REQ), 19 (RGQ), 131 (WEQ). Year to date, we have had nine new memberships (2 – WEQ, 2 – REQ, 0 – RGQ, 5 – WGQ) and 18 member resignations (9 – WGQ, 0 – REQ, 0 – RGQ, 9 – WEQ). We began the year with 301 members (122 (WGQ), 22 (REQ), 19 (RGQ), 138 (WEQ)). In September, we had no new members. We had one member resignation FirstEnergy Solutions (WEQ, Marketers/Brokers, IOU).
- October 31, 2011:** Membership is 289. Membership by quadrant is: 118 (WGQ), 23 (REQ), 18 (RGQ), 130 (WEQ). Year to date, we have had nine new memberships (2 – WEQ, 2 – REQ, 0 – RGQ, 5 – WGQ) and 21 member resignations (9 – WGQ, 1 – REQ, 1 – RGQ, 10 – WEQ). We began the year with 301 members (122 (WGQ), 22 (REQ), 19 (RGQ), 138 (WEQ)). In October, we had no new members. We had three member resignations Sierra Southwest Cooperative Services, Inc. (RGQ, Service Providers/Suppliers); Navigant Consulting, Inc. (REQ, Services Providers/Suppliers) and South Carolina Electric & Gas Company (WEQ, Marketers/Brokers, IOU).
- November 10, 2011:** Membership is 292. Membership by quadrant is: 118 (WGQ), 24 (REQ), 18 (RGQ), 132 (WEQ). Year to date, we have had 12 new memberships (4 – WEQ, 3 – REQ, 0 – RGQ, 5 – WGQ) and 21 member resignations (9 – WGQ, 1 – REQ, 1 – RGQ, 10 – WEQ). We began the year with 301 members (122 (WGQ), 22 (REQ), 19 (RGQ), 138 (WEQ)). As of November 10, we had three new members join, ZigBee Alliance (REQ, End Users/Public Agencies), Power Costs, Inc. (WEQ, Technology and Services) and Stryve Advisors, LLC (WEQ, Technology and Services). We have received no member resignations.



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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    | 16    | 65.5  | 6   | 26    | 7   | 32.5  | 1      | 2     | 0     | 0     | 2     | 5     |
|           | Conf. Calls/Hours | 19    | 58    | 7   | 31    | 2   | 4     | 8      | 20    | 2     | 3     | 0     | 0     |
|           | Monthly Total     | 35    | 123.5 | 13  | 57    | 9   | 36.5  | 9      | 22    | 2     | 3     | 2     | 5     |
| April     | Meetings/Hours    | 14    | 68.5  | 8   | 39    | 5   | 25.5  | 0      | 0     | 0     | 0     | 1     | 4     |
|           | Conf. Calls/Hours | 16    | 44    | 4   | 21    | 1   | 1     | 7      | 14    | 2     | 4     | 2     | 4     |
|           | Monthly Total     | 30    | 112.5 | 12  | 60    | 6   | 26.5  | 7      | 14    | 2     | 4     | 3     | 8     |
| May       | Meetings/Hours    | 17    | 80.5  | 6   | 36    | 8   | 35.5  | 3      | 9     | 0     | 0     | 0     | 0     |
|           | Conf. Calls/Hours | 18    | 54.5  | 5   | 27    | 0   | 0     | 11     | 24.5  | 1     | 1     | 1     | 2     |
|           | Monthly Total     | 35    | 135   | 11  | 63    | 8   | 35.5  | 14     | 33.5  | 1     | 1     | 1     | 2     |
| June      | Meetings/Hours    | 13    | 48    | 6   | 28    | 4   | 13    | 1      | 2     | 0     | 0     | 2     | 5     |
|           | Conf. Calls/Hours | 19    | 62.5  | 8   | 42    | 1   | 1     | 6      | 14.5  | 3     | 3     | 1     | 2     |
|           | Monthly Total     | 32    | 110.5 | 14  | 70    | 5   | 14    | 7      | 16.5  | 3     | 3     | 3     | 7     |
| July      | Meetings/Hours    | 13    | 46    | 6   | 27    | 4   | 12    | 1      | 2     | 0     | 0     | 2     | 5     |
|           | Conf. Calls/Hours | 19    | 64    | 8   | 42    | 1   | 1     | 6      | 14    | 2     | 3     | 2     | 4     |
|           | Monthly Total     | 32    | 110   | 14  | 69    | 5   | 13    | 7      | 16    | 2     | 3     | 4     | 9     |
| August    | Meetings/Hours    | 14    | 68    | 8   | 41    | 3   | 17    | 3      | 10    | 0     | 0     | 0     | 0     |
|           | Conf. Calls/Hours | 12    | 31    | 1   | 3     | 2   | 5     | 3      | 14    | 4     | 5     | 2     | 4     |
|           | Monthly Total     | 26    | 99    | 9   | 44    | 5   | 22    | 6      | 24    | 4     | 5     | 2     | 4     |
| September | Meetings/Hours    | 14    | 58    | 8   | 38    | 3   | 13    | 1      | 2     | 0     | 0     | 2     | 5     |
|           | Conf. Calls/Hours | 10    | 28    | 1   | 6     | 4   | 7     | 2      | 10    | 2     | 3     | 1     | 2     |
|           | Monthly Total     | 24    | 86    | 9   | 44    | 7   | 20    | 3      | 12    | 2     | 3     | 3     | 7     |



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### 2011 NAESB Meeting Analysis

| Month                 | Event                    | Total      |               | WEQ        |              | WGQ       |              | Retail    |             | Joint      |              | Board     |           |
|-----------------------|--------------------------|------------|---------------|------------|--------------|-----------|--------------|-----------|-------------|------------|--------------|-----------|-----------|
|                       |                          | #          | Hours         | #          | Hours        | #         | Hours        | #         | Hours       | #          | Hours        | #         | Hours     |
| October               | Meetings/Hours           | 15         | 76.5          | 7          | 40           | 5         | 27.5         | 3         | 9           | 0          | 0            | 0         | 0         |
|                       | Conf. Calls/Hours        | 13         | 40            | 5          | 20           | 3         | 7            | 2         | 8           | 2          | 4            | 1         | 1         |
|                       | Monthly Total            | 28         | 116.5         | 12         | 60           | 8         | 34.5         | 5         | 17          | 2          | 4            | 1         | 1         |
| 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 YTD 2011</b> | <b>Meetings/Hours</b>    | <b>141</b> | <b>637.5</b>  | <b>65</b>  | <b>330</b>   | <b>46</b> | <b>212.5</b> | <b>16</b> | <b>50</b>   | <b>4</b>   | <b>17</b>    | <b>10</b> | <b>28</b> |
|                       | <b>Conf. Calls/Hours</b> | <b>150</b> | <b>463</b>    | <b>49</b>  | <b>236</b>   | <b>16</b> | <b>30</b>    | <b>50</b> | <b>133</b>  | <b>24</b>  | <b>42</b>    | <b>11</b> | <b>22</b> |
|                       | <b>Events/Hours</b>      | <b>291</b> | <b>1100.5</b> | <b>114</b> | <b>566</b>   | <b>62</b> | <b>242.5</b> | <b>66</b> | <b>183</b>  | <b>28</b>  | <b>59</b>    | <b>21</b> | <b>50</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> |



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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.
- **October 31, 2011:** The copyright report as of November 1, 2011 is posted on the [web site](#). Statistics for purchases of standards are maintained monthly and can be seen below as of October 31, 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        | 0         | 0         | 2        | 1         | 0        | 2        | 0        | 0         |          |          | 9          |
| NAESB WGQ / REQ / RGQ Internet Electronic Transport Manual, Version 1.0 (\$150/\$900)                  | 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        | 0         | 0         | 1        | 1         | 1        | 0        | 1        | 1         |          |          | 6          |
| WGQ Base Contract for Sales/Purchases of Natural Gas/FTAA/OBA (Versions 1.7 and older) (\$25/\$50 ea.) | 0         | 0        | 0         | 0         | 0        | 0         | 0        | 1        | 0        | 0         |          |          | 1          |
| WGQ Base Contract for Sales/Purchases of Natural Gas/FTAA/OBA (Version 1.8, 1.9, 2.0) (\$25/\$50 ea.)  | 3         | 2        | 4         | 1         | 5        | 7         | 7        | 2        | 4        | 11        |          |          | 46         |
| WGQ Electronic CD-Rom of Standards Manuals (Versions 1.8 and older) (\$150/\$900)                      | 0         | 0        | 0         | 0         | 0        | 1         | 0        | 0        | 0        | 0         |          |          | 1          |
| WGQ Electronic CD-Rom of Standards Manuals (Version 1.9) (\$150/\$900)                                 | 0         | 1        | 0         | 1         | 0        | 2         | 1        | 2        | 1        | 1         |          |          | 9          |
| WGQ Electronic CD-Rom of Standards Manuals (Version 2.0) (\$150/\$900)                                 | 6         | 1        | 11        | 9         | 1        | 0         | 0        | 0        | 0        | 12        |          |          | 40         |
| WEQ Electronic CD-Rom of Standards Manuals (Versions 002 and older) (\$150/\$900)                      | 0         | 0        | 1         | 0         | 0        | 0         | 0        | 0        | 0        | 0         |          |          | 1          |
| WEQ Electronic CD-Rom of Standards Manuals (Version 002.1) (\$150/\$900)                               | 0         | 0        | 1         | 2         | 0        | 1         | 0        | 0        | 0        | 1         |          |          | 5          |
| NAESB WGQ Contracts Course/ eTariff Workshop CD-Rom  | 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          |
| Final Actions (\$50)   | 0         | 0        | 0         | 1         | 0        | 0         | 0        | 1        | 0        | 0         |          |          | 2          |
| <b>Total</b>   | <b>12</b> | <b>6</b> | <b>17</b> | <b>14</b> | <b>9</b> | <b>13</b> | <b>9</b> | <b>8</b> | <b>6</b> | <b>26</b> | <b>0</b> | <b>0</b> | <b>120</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        | 0        | 0        | 2        | 1        | 1        | 1        | 0        | 0        |          |          | 6        |
| WGQ Standards Manuals (Version 1.4 - 1.5)            | 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        |
| WGQ Standards Manuals (Version 1.7)                  | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |          |          | 0        |
| WGQ Standards Manuals (Version 1.8)                  | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |          |          | 0        |
| WGQ Standards Manuals (Version 1.9)                  | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |          |          | 0        |
| WGQ Standards Manuals (Version 2.0)                  | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |          |          | 0        |
| WEQ Standards Manuals (Version 001)                  | 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        |
| WEQ Standards Manuals (Version 002.1)                | 0        | 0        | 0        | 1        | 0        | 0        | 0        | 0        | 0        | 0        |          |          | 1        |
| NAESB REQ/RGQ Model Business Practices (Version 1.0) | 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        |
| NAESB REQ/RGQ Model Business Practices (Version 1.2) | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |          |          | 0        |
| <b>Total</b>   | <b>0</b> | <b>1</b> | <b>0</b> | <b>1</b> | <b>2</b> | <b>1</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>7</b> |



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### Financial Report Year-To-Date 2011 – Accrual Based, As of September 30, 2011

#### Balance Sheet

|   |                |
|---|----------------|
| Assets                                  |                |
| Current Assets                          | \$626,584.14   |
| Accounts Receivable                     | \$218,000.00   |
| Fixed Assets                            | \$70,446.24    |
| Other Assets                            | \$35,212.89    |
| Total Assets                            | \$950,243.27   |
| Liability & Equity                      |                |
| Deferred Revenue and Deferred Rents (1) | \$753,472.37   |
| Accounts Payable                        | \$67,480.25    |
| Retained Earnings                       | (\$218,354.03) |
| Net Income (1)                          | \$347,644.68   |
| Total Liability and Equity              | \$950,243.27   |
| Income and Expense                      |                |
| Income                                  | \$1,910,723.29 |
| Expense (1)                             | \$1,563,078.42 |
| Net Income                              | \$347,644.87   |

#### Income and Expenses to Budget - YTD

|                                 |                |
|---------------------------------|----------------|
| 2011 YTD Budget for Income      | \$2,073,826.82 |
| Income Variance (under budget)  | \$163,103.53   |
| 2011 YTD Budget for Expenses    | \$1,516,073.30 |
| Expenses Variance (over budget) | (\$47,005.12)  |

#### Year End Analysis

|   |                |
|---|----------------|
| 2011 Budget                             | \$2,056,933.00 |
| Revenue YTD Actual                      | \$1,910,723.29 |
| Remaining Revenue Estimated through YE  | \$46,133.70    |
| Estimated YE Revenue                    | \$1,956,856.99 |
| Expenses YTD Actual (1)                 | \$1,563,078.42 |
| Remaining Expenses Estimated through YE | \$364,065.22   |
| Estimated YE Expenses                   | \$1,927,143.64 |
| Difference – YE Revenue – YE Expenses   | \$29,713.35    |



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### Financial Report Year-To-Date 2011 – Accrual Based, As of September 30, 2011

#### Cash Basis Analysis

|                          |             |
|--------------------------|-------------|
| Beginning Balance 1-1-11 | \$779,646   |
| Total Cash Income        | \$1,354,101 |
| Total Costs              | \$1,507,163 |
| Ending Balance           | \$626,584   |

#### Accounts Receivable Analysis

|                                      |              |
|--------------------------------------|--------------|
| Accounts Receivable                  | \$218,000.00 |
| Items more than 90 Days Outstanding  | \$19,500.00  |
| Items 61-90 Days or more Outstanding | \$13,000.00  |
| Items 31-60 Days Outstanding         | \$19,500.00  |
| Items 30 Days or less Outstanding    | \$166,000.00 |

- (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 have paid \$34,157 in rents in 2011 that were not billed to NAESB in 2011. We completed pre-payments in May 2011. The lease commencement date is June 25, 2010 and the expiration date is April 30, 2021.

**DISHONGH,  
JANKOWSKI &  
EUBANK, P.C.**

CERTIFIED PUBLIC ACCOUNTANTS

800 Gessner, Suite 1200  
Houston, Texas 77024  
(713) 932-6700  
Fax (713) 932-6124

To the Managing Board of Directors  
North American Energy Standards Board  
Houston, Texas

We have reviewed the accompanying statements of financial position of the North American Energy Standards Board (a non-profit organization) as of December 31, 2010 and 2009, and the related statements of activities and cash flows for the years then ended, in accordance with Statements on Standards for Accounting and Review Services issued by the American Institute of Certified Public Accountants. All information included in these financial statements is the representation of the management of the North American Energy Standards Board.

A review consists primarily of inquiries of company personnel and analytical procedures applied to financial data. It is substantially less in scope than an examination in accordance with generally accepted auditing standards, the objective of which is the expression of an opinion regarding the financial statements taken as a whole. Accordingly, we do not express such an opinion.

Based on our review, we are not aware of any material modification that should be made to the accompanying financial statements in order for them to be in conformity with generally accepted accounting principles.

*Dishongh, Jankowski & Eubank, P.C.*

Dishongh, Jankowski & Eubank, P.C.  
Certified Public Accountants  
Houston, Texas  
July 28, 2011

**NORTH AMERICAN ENERGY STANDARDS BOARD**

**STATEMENTS OF FINANCIAL POSITION**

**As Of December 31, 2010 and 2009**

|                                   | <u>2010</u>            | <u>2009</u>            |
|-----------------------------------|------------------------|------------------------|
| <b>ASSETS</b>                     |                        |                        |
| <b>CURRENT ASSETS</b>             |                        |                        |
| Cash and cash equivalents         | \$ 779,645.71          | \$ 682,358.71          |
| Accounts receivable               | 293,000.00             | 279,500.00             |
| Prepaid expenses                  | <u>34,405.57</u>       | <u>13,828.24</u>       |
| TOTAL CURRENT ASSETS              | 1,107,051.28           | 975,686.95             |
| <b>PROPERTY AND EQUIPMENT</b>     |                        |                        |
| Furniture, fixtures and equipment | 141,531.18             | 245,754.65             |
| Leasehold improvements            | <u>21,890.87</u>       | <u>6,679.18</u>        |
|                                   | 163,422.05             | 252,433.83             |
| Less accumulated depreciation     | <u>108,279.71</u>      | <u>213,133.88</u>      |
| NET PROPERTY AND EQUIPMENT        | 55,142.34              | 39,299.95              |
| <b>OTHER ASSETS</b>               |                        |                        |
| Deposits                          | <u>21,626.00</u>       | <u>10,277.94</u>       |
| TOTAL ASSETS                      | <u>\$ 1,183,819.62</u> | <u>\$ 1,025,264.84</u> |
| <b>LIABILITIES AND NET ASSETS</b> |                        |                        |
| <b>CURRENT LIABILITIES</b>        |                        |                        |
| Accounts payable                  | \$ 49,150.16           | \$ 43,745.49           |
| Accrued salaries                  | 110,500.00             | 98,025.00              |
| Deferred rent                     | 99,018.36              | 0.00                   |
| Deferred revenue                  | <u>1,287,000.03</u>    | <u>1,332,499.97</u>    |
| TOTAL CURRENT LIABILITIES         | 1,545,668.55           | 1,474,270.46           |
| UNRESTRICTED NET ASSETS (DEFICIT) | <u>(361,848.93)</u>    | <u>(449,005.62)</u>    |
| TOTAL LIABILITIES AND NET ASSETS  | <u>\$ 1,183,819.62</u> | <u>\$ 1,025,264.84</u> |

See Accompanying Notes and Accountants' Review Report



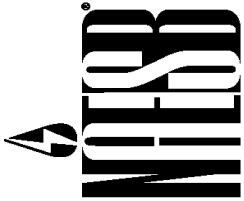


# North American Energy Standards Board

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)

NAESB Proposed 2012 Budget

| Retained Earnings History: |             |
|----------------------------|-------------|
| 2005                       | (\$371,826) |
| 2006                       | (\$276,538) |
| 2007                       | (\$256,161) |
| 2008                       | (\$374,186) |
| 2009                       | (\$350,981) |
| 2010                       | (\$218,354) |
| 2011 E                     | (\$188,654) |
| 2012 E                     | (\$172,541) |



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NAESB Proposed 2012 Budget

## Notes:

- 1 The certification related revenue for 2012 is based on 2011 revenues with an expectation of an increase due to additional certifications.
- 2 The home page access related revenue for 2012 is based on 2011 revenues with additions expected with some members converting their memberships to home page access to save in dues. The interest related revenue is based on 2011 actuals. The revenue for seminars and classes is based on the actuals for 2011.
- 3 We have not yet processed all the dues for 2011 so there is an increase, plus it is expected that additional companies will join by yearend. We have 289 members, and this shows an increase over the 2012 year of 8 members - which we hope to see based on the Resources Committee recommendations.
- 4 We have processed the 2011 withdrawals. We expect fewer withdrawals in 2012 as we have processed the withdrawals for many of the multi-company memberships.
- 5 Based on 2011 revenues, with the expectation that there will be more purchasing of standards given the interest in our DR and Smart Grid standards and the implementation of three new standards versions in 2012.
- 6 Reductions in costs for seminars and classes are realized in 2012 as classes can be held in the NAESB offices.
- 7 The salaries/benefits account assumes the staffing of 4 in-house attorneys, where in 2010 for the most part of the year, the office had 3 in-house attorneys and reflects an increase in benefits costs.
- 8 We are now fully within the lease for our property and have exhausted the grace period for rent, which is the reason for the increase. With IRS 990, we are required to normalize the rent over the period of the lease, so our actual expenditures are slightly less than shown - but the escalation from year to year is slight - so it is not much of an impact.
- 9 Office expenses are based on 2011 expense with the understanding that the office is moving to Windows 7 and Office 2010, and the expenses for moving have been realized in 2011.
- 10 Telecommunication rates are based on the 2011 expenses, recognizing the savings from reduced Verizon rates and increases as we rely more upon meetings held by phone/web.
- 11 Travel and meetings is one of the largest expense categories for NAESB. The 2012 budget is the based on the 2011 expenses, but we expect reduced expenses due to less for smart grid effort, less face-to-face meetings requiring travel and increased reliance on phone/web usage.
- 12 We intend to reduce several publications that have not seen the usage in the office that we had expected. The budget reflects those savings.
- 13 The outside services category of expenses is based on 2010 expenditures - recognizing an increase due to the shift to a different server service and the shift to current software applications with the accompanying information services costs.
- 14 The insurance, taxes and fees category of expenses is based on 2010 expenditures with no additional expenses anticipated for 2012.

**North American Energy Standards Board**

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November 10, 2011

**TO:** NAESB Resources committee  
**FROM:** Rae McQuade, NAESB President and COO  
**RE:** Membership Analysis, Vacancies on the Board and EC, Membership Prospects – November 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                   |
| Arc Innovations                                       | D. Rager          | Michael Peterson – sent membership information 8/02/2011   | D. Rager                   |
| ATC   | S. Brown          | Bert Garvin – Scott will approach  | S. Brown                   |
| <b>Berrendo Energy</b>                                | <b>Office</b>     | <b>Andrew Wernsdorfer – sent membership information 09/12/2011</b>   | <b>D. Rager</b>            |
| <b>HPA</b> Big Apple                                  | D. Rager          |  | D. Rager                   |
| Boeing Defense, Space and Security (BDS)              | R. McQuade        | Chris Smith – sent membership information 8/22/2011  | R. McQuade/D. Rager        |
| <b>Boeing Energy</b>                                  | <b>R. McQuade</b> | <b>Tim Noonan – sent membership information 8/22/2011</b><br><b>Ted Austell – sent membership information 11/08/2011</b>   | <b>R. McQuade/D. Rager</b> |
| <b>Boeing Energy Solutions</b>                        | <b>R. McQuade</b> | <b>Kenneth Laubsch – sent membership information 8/22/2011</b><br><b>Christopher Speers – 10/5/2011</b>  | <b>R. McQuade/D. Rager</b> |
| ✓ <b>Caerus Energy, LLC</b><br>- <i>WGQ, Services</i> | D. Rager          | Doug Deaton - Initial subscription to HPA within 30 days decided to become a member. Joined  | D. Rager                   |
| Cavium Networks                                       | J. Hurley         |  | J. Hurley                  |
| <b>HPA</b> Dewey & LeBoeuf                            | D. Rager          | Annual Renewal   | D. Rager                   |
| Direct Energy   | S. Brown          |  | S. Brown                   |
| <b>Double Engineering Company</b>                     | <b>J. Booe</b>    | <b>Brad Arnold – 09/29/2011; 10/17/2011</b>  | <b>J. Booe</b>             |
| Eagle Rock Energy                                     | D. Rager          | Karina Amelang – sent membership information   | D. Rager                   |



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Attachment 2a

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

| Membership Prospects  | Source         | Contact/Notes   | Assignment        |
|---|----------------|---|-------------------|
|   |                | 7/14/2011   |                   |
| Echelon Corp  | R. McQuade     | Glenn B. Manishin – meeting on NAESB materials and membership 8/24/2011   | R. McQuade        |
| ✓ <b>Energy Information Standards Alliance</b><br><i>- REQ, End Users/Public Agencies</i> | J. Booe        | Christopher Kotting – <b>Joined</b>   | J. Booe/D. Rager  |
| ✓ <b>Energy Solutions International, Inc.</b><br><i>- WGQ, Services</i>                   | Office         | Chuck McClure – submitted application June 1 – <b>Joined</b>  | D. Rager          |
| Engineering Data Design   | D. Rager       | Greg Galbraith – sent membership information 8/18/2011  | D. Rager          |
| 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 – <b>Joined</b>  | J. Booe           |
| HPA IGS Energy  | D. Rager       |   | D. Rager          |
| HPA Itineris  | D. Rager       |   | D. Rager          |
| International Transmission Company (ITC)  | S. Brown       | Terry Harvill – Scott met with Terry on July 8  | S. Brown          |
| HPA Jones Day   | D. Rager       |   | D. Rager          |
| Katten Muchin Rosenman LLP  | D. Rager       | E. Perry Hicks – sent membership information 8/24/2011  | D. Rager          |
| KEMA  | S. Brown       |   | S. Brown          |
| ✓ <b>Marathon Petroleum Company LP</b><br><i>- WGQ, End Users</i>                         | Office         | Laddie Weems – submitted application May 26, 2011 – <b>Joined</b>   | D. Rager          |
| Microsoft   | J. Hurley      | Chad Maglaque and Bill Harmon – sent information packet   | 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             |
|----------------------|---|------------------------------|------------------------|
|                      |   | 11/17/2010 per J. Booe NAESB |                        |
|                      |   | New contact Scott Harmon     |                        |
| <b>HPA</b>           | Morgan, Lewis & Bockius, LLP  | D. Rager                     | D. Rager               |
|                      | Morgan Stanley ISGT Commodities   | D. Rager                     | D. Rager               |
| ✓                    | <b>Nalcor Energy</b><br><i>- WEQ, Marketers/Brokers, Fed/State/Prov</i> | D. Rager                     | D. Rager               |
|                      | NERA Economic Consulting  | D. Rager                     | D. Rager               |
|                      | New Mexico Gas Company  | LL. Pennock                  | D. Rager               |
|                      | Northeast Energy Efficiency Partnership (NEEP)                          | R. McQuade/C. Cummings       | R. McQuade/C. Cummings |
|                      | North Carolina PUC  | D. Koogler                   |                        |
| <b>HPA</b>           | One Link Financial Inc.   | D. Rager                     | D. Rager               |
|                      | Pacific Gas & Electric Company  | D. Rager                     | D. Rager               |
| ✓                    | <b>PAA Natural Gas Storage, LLC</b><br><i>- WGQ, Services</i>           | D. Rager                     | D. Rager               |
|                      | PERI Software Solutions   | R. McQuade/C. Freitas        | R. McQuade/D. Rager    |
| ✓                    | <b>Power Costs, Inc. (PCI)</b><br><i>- WEQ, Technology and Services</i> | Office                       | D. Rager               |
| ✓                    | <b>QEP Resources, Inc.</b><br><i>- WGQ, Producer</i>                    | Office                       | D. Rager               |
| <b>HPA</b>           | SaskPower Corporation   | D. Rager                     | D. Rager               |
|                      | Sempa Power Systems   | R. McQuade/J. Booe           | J. Booe/D. Rager       |
|                      | Shiplay Energy Company  | M. Novak                     | D. Rager               |



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Attachment 2a

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

| Membership Prospects   | Source             | Contact/Notes  | Assignment          |
|--|--------------------|--|---------------------|
| 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. Not joining at this time                                  | D. Rager            |
| ✓ <b>Stryve Advisors, LLC</b><br>- <i>WEQ, Technology and Services</i>           | R. McQuade         | John McNevin and Rachel Bryan – Joined   | R. McQuade/D. Rager |
| Terremark  | J. Hurley          | Chris Day  |                     |
| <b>HPA</b> <b>TransAlta Energy Energy Marketing Canada</b>                       | D. Rager           | Annual Renewal   | D. Rager            |
| Ultimate Clean   | Office             | Alan Barbish – sent information packet 11/10/2010. Not joining at this time.                                 | D. Rager            |
| US Telecom   | J. Hurley          | Robert Mayer – sent information packets 05/24/2010   | J. Hurley/D. Rager  |
| ✓ <b>Vermont Public Service Board</b><br>- <i>WEQ, End Users</i>                 | R. McQuade         | Pam Stonier – Joined   | D. Rager            |
| ✓ <b>Vermont Public Service Board</b><br>- <i>REQ, End Users/Public Agencies</i> | R. McQuade         | Pam Stonier – Joined   | 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  |
| <b>HPA</b> Wasbash Valley Power Association                                      | D. Rager           |  | D. Rager            |
| <b>HPA</b> White & Case LLP  | D. Rager           | Annual Renewal   | D. Rager            |
| ✓ <b>ZigBee Alliance</b><br>- <i>REQ, End Users/Public Agencies</i>              | J. Booe/R. McQuade | Tobin Richardson – Joined  | J. Booe/D. Rager    |

✓ = has joined NAESB

\* = membership application received/payment pending

x = not joining at this time

HPA = home page access

Red text = activity since last meeting



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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   |            |
| CLEARResult Consulting   | Participant<br>DSM         | Eric Stern   |            |
| CLEARResult 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>Janette Dudley, Murtaza Kapadia, Dirk Mahling, Nicholas Justice Planson</b> |            |
| <b>Demand Response Coordinating Committee</b>                  | <b>Participant<br/>DSM</b> | <b>Katherine George, Paul M. Pietsch</b>                                       |            |
| <b>Demand Response &amp; Energy Consulting, LLC</b>            | <b>Participant<br/>DSM</b> | <b>Marie Pieniasek</b>   |            |



## North American Energy Standards Board

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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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| Membership Prospects  | Source             | Contact/Notes                           | Assignment |
|---|--------------------|---|------------|
| GoodCents   | Participant<br>DSM | Bill Bland, Robert Mason, Liza 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 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/Xenergy  | 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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*(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 2c

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

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



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

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|--------------------------------------|--------------------------|--|------------|
| ENOSERV                              | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                   | D. Rager   |
| Eviance                              | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                   | D. Rager   |
| Erado Message Control Solutions      | S. Brown                 | D. Rager - sent letter with membership information 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 4/23/2009                   | D. Rager   |
| Eureka Software                      | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                   | D. Rager   |
| FishNet Security, Inc.               | S. Brown                 | D. Rager - sent letter with membership information 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 4/23/2009                   | D. Rager   |
| Global DataGuard, Inc.               | S. Brown                 | D. Rager - sent letter with membership information 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 4/23/2009     | D. Rager   |
| HP Atalla Security Products          | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                   | D. Rager   |
| Industrial Defender                  | S. Brown                 | D. Rager - sent letter with membership information                             | D. Rager   |



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

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



## North American Energy Standards Board

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Phone: (713) 356-0060, Fax: (713) 356-0067, E-mail: naesb@naesb.org  
Home Page: www.naesb.org

Attachment 2g

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

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

| Membership Prospects                         | Source                   | Contact/Notes   | Assignment |
|--|--------------------------|---|------------|
| MetricStream, Inc.                           | S. Brown                 | Gunjan Sinha - D. Rager - sent letter with membership information 4/23/2009     | D. Rager   |
| 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 SGSTF</b> | <b>Steve Widergren</b>  |            |
| Policy Technologies International, Inc.      | S. Brown                 | D. Rager - sent letter with membership information 4/24/2009                    | D. Rager   |
| <b>Portland Gas and Electric</b>             | <b>Participant SGSTF</b> | <b>Albert Chiu</b>  |            |
| Power Decisions Consulting                   | 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   | D. Rager   |



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|-------------------------------------|----------|--|------------|
|                                     |          | membership information<br>4/24/2009  |            |
| 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   |



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

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

| Membership Prospects                          | Source   | Contact/Notes   | Assignment |
|---|----------|---|------------|
| SOURCEfire                                    | S. Brown | D. Rager - sent letter with membership information 4/29/2009                    | D. Rager   |
| Southwest Microwave, Inc.                     | S. Brown | D. Rager - sent letter with membership information 4/29/2009                    | D. Rager   |
| Sph3r3, LLC                                   | S. Brown | D. Rager - sent letter with membership information 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 4/29/2009                    | D. Rager   |
| System Operations Success, Int'l. (SOS Int'l) | S. Brown | D. Rager - sent letter with membership information 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 4/29/2009                    | D. Rager   |
| Towerline Software                            | S. Brown | D. Rager - sent letter with membership information 4/29/2009                    | D. Rager   |
| TriGeo Network Security                       | S. Brown | D. Rager - sent letter with membership information 4/29/2009                    | D. Rager   |
| Tripwire                                      | S. Brown | D. Rager - sent letter with membership information 4/29/2009                    | D. Rager   |
| Utility Decision Support (UDS) Group          | S. Brown | D. Rager - sent letter with membership information 4/29/2009                    | D. Rager   |
| Universal Safety Response, Inc.               | S. Brown | D. Rager - sent letter with membership information 4/29/2009                    | D. Rager   |



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

| Membership Prospects                    | Source                       | Contact/Notes   | Assignment |
|---|------------------------------|---|------------|
| <b>University of North Carolina</b>     | <b>Participant<br/>SGSTF</b> | <b>Toby Considine</b>   |            |
| 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   |
| Venus Tech (eTariff Vendor)             | C. Burden                    | C. Burden to provide contact information to NAESB                             | 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 |
|----------|---------------------------|--|---------------|--------------|
| WGQ      | Services                  | Caerus Energy, LLC<br>Contact: Doug Denton                             | Participation | March        |
| WGGQ     | Services                  | Energy Solutions International Inc.<br>Contact: Chuck McClure          | Participation | June         |
| REQ      | End Users/Public Agencies | Honeywell International, Inc.<br>Contact: Steve Gabel                  | Participation | January      |
| WGQ      | End Users                 | Marathon Petroleum Company LP<br>Contact: Laddie Weems                 | Participation | June         |
| WEQ      | Marketers/Brokers         | Nalcor Energy<br>Contact: Brad Coady                                   | Participation | March        |
| WGQ      | Services                  | PAA Natural Gas Storage, LLC<br>Contact: Eileen W. Kisluk              | Participation | March        |
| WEQ      | Technology/Services       | Power Costs, Inc. (PCI)Power Costs, Inc. (PCI)<br>Contact: TJ Ferreira | Participation | November     |
| WGQ      | Producer                  | QEP Resources, Inc.<br>Contact: Steve Stanton                          | Participation | May          |
| WEQ      | Technology/Services       | Stryve Advisors, LLC<br>Contact: Rachel Bryan                          | Participation | November     |
| REQ      | End Users/Public Agencies | Vermont Public Service Board<br>Contact: Pam Stonier                   | Participation | March        |
| WEQ      | End Users                 | Vermont Public Service Board<br>Contact: Pam Stonier                   | Participation | March        |
| REQ      | End Users/Public Agencies | ZigBee Alliance<br>Contact: Tobin Richardson                           | Participation | November     |



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| 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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| 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 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                        | Non renewal   | February       |
| WGQ      | Services                    | Ballard Natural Gas, LLC<br>Contact: Susan Thibodeaux                          | Non renewal   | May            |
| WEQ      | End Users                   | BP American Inc.<br>Contact: Rhonda Denton                                     | Non renewal   | June           |
| WEQ      | Marketers/Brokers           | Brookfield Energy Marketing, Inc.<br>Contact: Nicolas Bosse                    | Non renewal   | June           |
| WEQ      | Transmission                | Dairyland Power Cooperative<br>Contact: Chuck Callies                          | Non renewal   | August         |
| WEQ      | Marketers/Brokers           | Electric Power Supply Association<br>Contact: Jack Cashin                      | Non renewal due to resources/budget changes for 2011  | February       |
| WEQ      | Marketers/Brokers           | FirstEnergy Solutions Corp.<br>Contact: Mark Travaglianti                      | Non renewal   | September      |
| WGQ      | Producer                    | High Mount Exploration & Production, LLC<br>Contact: David Walker              | Non renewal – elected to discontinue participation  | February       |
| WGQ      | LDC                         | La Clede Gas Co.<br>Contact: Kenneth Neises                                    | Non renewal   | May            |
| 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      | LDC                         | National Grid Gas Distribution Companies<br>Contact: Bub Superty               | Non renewal due to lack of company participation and interest in the items the WGQ is working on.                           | May            |
| REQ      | End Users/Public Agencies   | Naviagant Consulting, Inc.<br>Contact: Kevin Cooney                            | Non-renewal-unable to find time to be adequately involved, as such it does not work for their Energy Practice at this time. | October        |
| WGQ      | Pipeline                    | Reliance Gas Transportation Infrastructure Limited<br>Contact: Jagjit S. Yadav | No reason given for non renewal   | March          |
| WEQ      | Generation                  | RRI Energy Services, Inc.<br>Contact: Trent Carlson                            | Non renewal   | August         |
| RGQ      | Service Providers/Suppliers | Sierra Southwest Cooperative Services, Inc.<br>Contact: Rick Vogel             | Non-renewal- sold natural gas business  | October        |
| WGQ      | Services                    | SolArc, Inc.<br>Contact: Tom Brune   | Non renewal   | June           |



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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        | Southern California Edison Company<br>Contact: T.J. (Timothy)Ferreira | Non renewal of this membership. Still active memberships in WEQ, Transmission and WGQ, End User        | May            |
| WEQ      | Marketers/Brokers | South Carolina Electric & Gas Company<br>Contact: Kevin Spitzform     | Non-renewal – Keeping WEQ, Transmission membership   | October        |
| 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       |
| WGQ      | Services          | Vega Energy Partners, Ltd.<br>Contact: Julie Pincus and Lori Leeder   | Non renewal  | August         |



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### 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 November 10, 2011

| Vacant Seats | Quadrant           | Seat  | Segment  | Subsegment   |  |
|--------------|--------------------|---|--|--|--|
| 5            | Retail Electric    | Board (3)   | End Users/Public Agencies (3)  |  |  |
|              |                    | <i>Note: 2 nominees for terms ending 12/31/2011</i> |  |  |  |
|              |                    | Executive Committee (2)                             | End Users/Public Agencies (2)  |  |  |
| 13           | Retail Gas         | Board (5)   | Distributors (1)<br>End Users/Public Agencies (4)                                    |  |  |
|              |                    | Executive Committee (8)                             | Distributors (1)<br>End User /Public Agencies (4)<br>Service Providers/Suppliers (3) |  |  |
| 21           | Wholesale Electric | Board (12)  | Distribution/Load Serving Entities (LSE) (2)   | Competitive Retailer (at large) (1)<br>Other (at large) (1)  |  |
|              |                    |   | Generation (1)   | Muni/Coop  |  |
|              |                    |   | <i>Note: 1 nominee for term ending 12/31/2011</i>                                    | Transmission (2)   | IOU (at large) (1)<br>At-Large (at large)(1)                           |
|              |                    |   | Marketers/Brokers (3)  | At-Large (at large) (1)<br>Not IOU Affiliated (at large) (2) |  |
|              |                    |   | <i>Note: 2 nominees for terms ending 12/31/2011</i>                                  | End User (2)   | Large Industrial (at large) (1)<br>At Large (at large) (1)             |
|              |                    |   | Technology/Services (2)  |  |  |
|              |                    |   | Executive Committee (9)  | End User (2)   | Large Industrial (at large)(1)<br>Commercial/Residential (at large)(1) |
|              |                    |   | Distribution/LSE (1)   | IOU (1)  |  |
|              |                    |   | <i>Note: 2 nominees for terms ending 12/31/2011</i>                                  | Technology/Services (5)                                      |  |
|              |                    |   | Generation (1)   | Merchant (at large) (1)                                      |  |
| 3            | Wholesale Gas      | Board (2)   | LDC (2)  |  |  |
|              |                    | Executive Committee (1)                             | LDC (1)  |  |  |



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Attachment 6

### Membership Roster Sorted by Company as of November 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      | g       | iou         | American Electric Power Service Corp.     | Joanne Goza, 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. Pollard, Rene Staeb, Debbie Forth, Carol Wehlmann, Radha Raman, Mary Doss | 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               |



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Attachment 6

Membership Roster Sorted by Company as of November 10, 2011

| Quadrant | Segment | Sub-Segment | Member Company                           | Contact   | State / Province |
|----------|---------|-------------|--|---|------------------|
| WGQ      | pl      |             | Atmos Energy                             | Steve Easley  | TX               |
| WEQ      | t       | iou         | Avista Corporation                       | Jeff Schlect, Kenneth Dillon                                | WA               |
| 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, Michelle Hiley                             | 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 Braziel  | CO               |
| WGQ      | s       |             | BG Energy Merchants, LLC                 | Martha Braddy, Susan Bailey, David Buckley, Victoria Versen | TX               |
| WEQ      | t       | iou         | Black Hills Corporation                  | Larry D. Williamson, Kenna Hagan                            | SD               |
| WGQ      | pl      |             | Boardwalk Pipelines, LP                  | Randy Young   | TX               |
| WGQ      | e       |             | Boeing Company                           | Tina Burnett  | WA               |
| WEQ      | d       | other       | Bonneville Power Administration          | Syd 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               |
| WGQ      | pr      |             | BP Energy                                | Mark Stultz, Rhonda Denton                                  | TX               |
| WGQ      | s       |             | Caerus Energy, LLC                       | Doug Deaton   | TX               |
| WEQ      | g       | fed         | California Department of Water Resources | Glenn Solberg, Chi Doan                                     | CA               |
| WEQ      | i       |             | California ISO                           | Brian Jacobsen  | CA               |
| WGQ      | e       |             | Calpine Energy Services, LP              | Shonnie Daniel, Jay Dibble                                  | TX               |
| RGQ      | s       |             | Capacity Center                          | Greg Lander   | MA               |



## North American Energy Standards Board

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|----------|---------|-------------|---|--|------------------|
| 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 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 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                            | Catherine R. Abercrombie   | TX               |
| WGQ      | l       |             | Consolidated Edison Company of NY                       | Scott Butler, Paul Olmsted   | NY               |
| 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, Andrea Kullman, Jennifer Scott, Stephen C. Knapp | MD               |



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| Quadrant | Segment | Sub-Segment | Member Company                                 | Contact  | State / Province |
|----------|---------|-------------|--|--|------------------|
| WEQ      | d       | iou         | Consumers Energy Company                       | Andrew C. Dotterweich  | MI               |
| 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, Josephina Nguyen, Mike Dionisio  | 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, Dena Crawford, Marcia L. Hissong, Ann Marie Jambor, 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, James P. Fama   | DC               |
| WGQ      | pr      |             | El Paso Exploration & Production Company       | Stephanie Karm   | TX               |
| WGQ      | pl      |             | El Paso Natural Gas                            | William Griffith   | TX               |



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|----------|---------|-------------|---|--|------------------|
| REQ      | s       |             | Electric Reliability Council of Texas (ERCOT)                                     | Susan Munson                               | TX               |
| WEQ      | i       |             | Electric Reliability Council of Texas (ERCOT)                                     | Bill Blevins, Paul Wattles,<br>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, Jeff Jarvis             | CO               |
| WGQ      | pr      |             | Encana Oil & Gas (USA) Inc.   | Keith Sappenfield, Jeff Jarvis             | ALB              |
| WEQ      | e       | enduse      | Energy Curtailment Specialists, Inc. (ECS)  | Marie Pieniazek                            | NY               |
| REQ      | e       |             | Energy Information Standards Alliance   | Christopher Kotting                        | CA               |
| WGQ      | s       |             | Energy Solutions International Inc.   | Chuck McClure                              | TX               |
| WGQ      | pl      |             | Energy Transfer Partners, L.P.  | Josie Castrejana, Miki<br>Kolobara         | TX               |
| WEQ      | e       | enduse      | EnerNOC, Inc.   | Aaron Breidenbaugh                         | MA               |
| WEQ      | t       | iou         | Entergy Services, Inc.  | Edward J. Davis, Narinder<br>Saini         | LA               |
| WGQ      | e       |             | Entergy Services, Inc.  | Laura Berryman, Terry<br>Shields           | LA               |
| WGQ      | pl      |             | Enterprise Products Partners, LP  | Jeff Molinaro                              | TX               |
| WGQ      | pl      |             | Equitrans, L.P.   | Paul W. Diehl                              | PA               |
| RGQ      | s       |             | Exelon Energy   | Sheree M. Petrone                          | PA               |
| REQ      | u       |             | Exelon Energy Delivery  | David Geraghty                             | IL               |
| WEQ      | m       | iou         | Exelon Generation - Power Team  | Jack Crowley                               | IL               |
| WGQ      | pr      |             | ExxonMobil Gas & Power Marketing Company a<br>division of Exxon Mobil Corporation | Randy E. Parker, John W. Poe               | TX               |
| WEQ      | d       | iou         | First Energy Service Company  | Robert M. Martinko, Thomas<br>C. Burgess   | 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               |



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|----------|---------|-------------|--|--|------------------|
| 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       |             | Integrus Energy Group, Inc.                    | Tom Aridas, Ken Thiry                        | WI               |
| WGQ      | l       |             | Integrus 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,<br>Jennifer Teel | TX               |
| WGQ      | s       |             | JP Morgan Ventures Energy Corp                 | Paul Tramonte                                | TX               |
| WGQ      | pl      |             | Kern River Gas Transmission Company            | Brenda Horton                                | UT               |
| 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<br>Monday               | KY               |



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|----------|---------|-------------|--|------------------------------------|------------------|
| 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.                       | Tara Liscombe, 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   | Shannon Jones                      | CAN              |
| WEQ      | t       | fed         | Manitoba Hydro   | Tyler Young                        | CAN              |
| WGQ      | pr      |             | Marathon Oil Company                                     | Robin Perrine                      | TX               |
| WGQ      | e       |             | Marathon Petroleum Company LP                            | Laddie Weems                       | OH               |
| 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 Kupczyk                    | NY               |
| WEQ      | t       | iou         | National Grid  | Edward M. Kremzier                 | MA               |
| WEQ      | ts      |             | National Institute of Standards and Technology           | David A. Wollman                   | MS               |



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|----------|---------|-------------|---|--|------------------|
| WEQ      | d       | muni        | National Rural Electric Cooperative Assoc.                | Paul McCurley  | VA               |
| WGQ      | pl      |             | Natural Gas Pipeline Co of America                        | Paul Love, Stan Thomas,<br>Mike Schisler, Paul Haas              | TX               |
| 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.  | Deepak Raval, Michael D.<br>Watson                               | IN               |
| WGQ      | pl      |             | Noble Americas Corp.                                      | Joseph Limone  | CT               |
| WGQ      | pr      |             | Noble Energy, Inc.  | Richard D. Smith, Tammy<br>M. Stevens                            | TX               |
| WEQ      | d       | at large    | North American Electric Reliability Corporation<br>(NERC) | David Taylor, Andy<br>Rodriquez                                  | NJ               |
| WEQ      | d       | muni        | North Carolina Electric Membership Corporation            | David Beam, Diane Huis,<br>Robert S> Beadle, James R.<br>Manning | NC               |
| WEQ      | t       | iou         | Northeast Utilities Service Company                       | David Boguslawski, Calvin<br>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.                                | Bob Jones  | ALB              |
| WEQ      | g       | merc        | NRG Energy, Inc.  | Alan Johnson, Jennifer J.<br>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<br>McKeever                              | TX               |
| WGQ      | l       |             | ONEOK   | Richard Tangeman   | OK               |



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|----------|---------|-------------|--|---|------------------|
| 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               |
| WGQ      | s       |             | PAA Natural Gas Storage, LLC   | Eileen W. Kisluk                              | TX               |
| 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      | ts      |             | Power Costs, Inc. (PCI)  | TJ Ferreira                                   | OK               |
| WEQ      | m       | fed         | Powerex Corp.  | Michael L. McWilliams, Sharole Tylor          | BC               |
| WEQ      | d       | muni        | PowerSouth Energy Cooperative  | William Ronald Graham                         | AL               |
| WEQ      | t       | iou         | PPL Electric Utilities Corporation   | Randy Kreider                                 | PA               |
| WGQ      | e       |             | PPL EnergyPlus, LLC  | Anne Lovett                                   | PA               |
| REQ      | s       |             | PPL Solutions, LLC   | James M. Minneman, Kim Wall                   | PA               |



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|----------|---------|-------------|--|---|------------------|
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| 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      | pr      |             | QEP Resources, Inc.  | Steve Stanton   | CO               |
| WGQ      | pl      |             | Questar Pipeline Co.   | Jerry H. Gross  | UT               |
| WGQ      | s       |             | Quorum Business Solutions Inc.                                 | Seth Peters, Michael Lewis                                      | 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   | Cathy Leone-Woods   | 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.                               | Katy Mirr   | 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               |



## North American Energy Standards Board

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Home Page: [www.naesb.org](http://www.naesb.org)

Attachment 6

Membership Roster Sorted by Company as of November 10, 2011

| Quadrant | Segment | Sub-Segment | Member Company                           | Contact   | State / Province |
|----------|---------|-------------|--|---|------------------|
| WGQ      | s       |             | SNL Financial                            | Katrina Sumey   | CO               |
| WEQ      | t       | iou         | South Carolina Electric & Gas Company    | S. Porcher Stoney, James T. Starling, Jr., Sonya Green-Sumpter, Matt Bullard, Kevin Spitzform | SC               |
| WEQ      | t       | iou         | Southern California Edison               | Weston Williams   | CA               |
| WGQ      | e       |             | Southern California Edison Company       | Roman Bakke, Rob Grimm  | CA               |
| 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, JT Wood, James Y. Busbin, Corey Sellers, Antonio Grayson       | GA               |
| WGQ      | e       |             | Southern Company Services, Inc.          | Alan Kilpatrick, Bronson Kilgore  | GA               |
| WGQ      | pl      |             | Southern Star Central Gas Pipeline       | Philip Rullman, Tim L. Thompson   | KY               |
| WGQ      | l       |             | Southwest Gas Corporation                | Larry Black, Mark Anderson, Mark Litwin, John Olenick   | NV               |
| WEQ      | i       |             | Southwest Power Pool                     | Carl Monroe, Michael Desselle, Charles Yeung  | AR               |
| WEQ      | t       | muni        | Southwest Transmission Cooperative, Inc. | James Burson  | 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      |             | Stryve Advisors, LLC                     | Rachel Bryan  | TX               |
| 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               |



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| Quadrant | Segment | Sub-Segment | Member Company   | Contact   | State / Province |
|----------|---------|-------------|--|---|------------------|
| WEQ      | g       | fed         | Tennessee Valley Authority                                 | Kathy York  | TN               |
| WEQ      | m       | fed         | Tennessee Valley Authority                                 | Luis A. (Tony) Suarez,<br>Valerie 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                                      | Bob Jones   | 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,<br>Inc. | Carla Javornik, Doug Reese                                | CO               |
| WEQ      | t       | iou         | Tucson Electric Power Company                              | Raquel Aguilar, Judy<br>Fregoso, Ed Beck, Amy<br>Welander | AZ               |
| RGQ      | d       |             | UGI Utilities, Inc.  | Paul Szykman  | PA               |
| WEQ      | t       | iou         | United Illuminating Company, The                           | Jim Clemente, Laurie<br>Lombardi                          | 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               |
| REQ      | s       |             | Ventyx, Inc.   | Nathan Chang  | TX               |
| WEQ      | g       | muni        | Vermont Public Power Supply Authority                      | William J. Gallagher                                      | VT               |
| WEQ      | e       | reg         | Vermont Public Service Board                               | Pam Stonier   | VT               |
| REQ      | e       |             | Vermont Public Service Board                               | Pam Stonier   | 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<br>Wilkerson                          | KS               |
| WEQ      | m       | fed         | Western Area Power Administration                          | Jeffrey Ackerman  | CO               |



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Attachment 6

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

| Quadrant | Segment | Sub-Segment | Member Company                           | Contact  | State / Province |
|----------|---------|-------------|--|--|------------------|
| WEQ      | t       | fed         | Western Area Power Administration        | JB Hite  | CO               |
| WEQ      | t       | at large    | Western Electricity Coordinating Council | Michelle Mizumori, Craig L. Williams                       | 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               |
| REQ      | e       |             | ZigBee Alliance                          | Tobin Richardson   | CA               |



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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:** November 28, 2011

Dear Critical Infrastructure Committee Members,

A Critical Infrastructure Committee conference call was held on November 3, 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 from the November 3, 2011 NAESB Board Critical Infrastructure Committee Conference Call

**Administrative:** Mr. Hurley welcomed the participants to conference call and thanked them for attending. Mr. Booe provided the antitrust guidance and called the roll. Mr. Hurley reviewed the draft agenda and it was adopted by consensus.

**Review Recent Board, Legislative and Industry Action** Mr. Hurley noted that the NAESB Board of Directors has taken action since the last meeting in response to the recent threat to the SSL (Secure Socket Layer) protocols by adding an item to the WEQ, WGQ and Retail Annual Plans to determine if changes to standards are needed to support adequate session encryption. He recommended that the Committee consider a review of the entire set of NAESB standards and the possible development of a comprehensive security policy standard.

Mr. Hurley provided an update of the recent cyber security related legislative activities. Currently, the bill under development is supported by both Democrats and Republicans and proposes a structure which gives the Department of Homeland Security (DHS) the authority to direct the FERC to develop regulation in support of DHS policy. However, a report developed by Representative Thornberry, which warns about concurrent jurisdictional issues and the enforcement of unfunded mandates, is developing traction with Republican party members. Mr. Hurley noted that it is unlikely that the bill will be put on the floor before the end of 2011.

Mr. Kirby stated that he supports NAESB's proactive position regarding cyber security issues as the industry awaits government action and asked if there is anything else the organization should be doing to get in front of the pending legislation. Mr. Hurley stated that he believes the organization is on the right track planning for 2012. Mr. Buccigross noted that gas quadrants have also been proactive by including cyber security related items on their 2012 annual plans. Mr. Spangler asked if the 2012 elections will act as a distraction and delay adoption of cyber security legislation. Mr. Hurley responded that resolving the issue has bi-partisan support and should not be delayed as a result of the elections. Mr. Gee noted that the deployment of smart meters and the implementation of the smart grid have added a level of complexity that has not been addressed. Mr. Hurley concurred and noted that the current smart grid related cyber security guidelines are not mandatory. He also stated that the impact of the cyber security legislation will likely affect the states by marginalizing their ability to regulate under the auspice of national security. Mr. Williams asked how DHS is combating information sharing issues given that reports about many attacks require a security clearance. Mr. Hurley responded that information sharing is one of the governments priority issues and that the ability to disclose security breaches in real time or through an automated system is under discussion.

**Other Business** Mr. Hurley requested that the next meeting be scheduled for only one hour rather than two.

**Adjourn:** Mr. Kirby moved to adjourn the meeting at 1:53 pm Central and the meeting was adjourned by consensus.

**Work Papers Provided for the Meeting:**

**Meeting Related Documents:**

- September 8, 2011 meeting notes: [http://www.naesb.org/pdf4/bd\\_cic\\_090811notes.doc](http://www.naesb.org/pdf4/bd_cic_090811notes.doc)
- XML Breach Articles: [http://www.naesb.org/pdf4/bd\\_cic\\_110311w1.doc](http://www.naesb.org/pdf4/bd_cic_110311w1.doc)



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### Notes from the November 3, 2011 NAESB Board Critical Infrastructure Committee Conference Call

#### CRITICAL INFRASTRUCTURE COMMITTEE MEMBERS

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



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### Notes from the November 3, 2011 NAESB Board Critical Infrastructure Committee Conference Call

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#### OTHER ATTENDEES

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| <b>Attendee</b>   | <b>Organization</b>                |
|-------------------|------------------------------------|
| Jeff Bloodworth   | Manitoba Hydro                     |
| Jonathan Booe     | NAESB                              |
| Kathryn Burch     | Spectra Energy                     |
| Pete Connor       |                                    |
| Dale Davis        | Williams Gas Pipeline              |
| Mary Doss         | ANR Pipeline                       |
| Doug Field        | Southern Star Central Gas Pipeline |
| Richard Ishikawa  | Southern California Gas Company    |
| Bill Griffith     | El Paso Natural Gas                |
| Marie Knox        | Midwest ISO                        |
| Dennie Miles      | Southern Star Central Gas Pipeline |
| Dean Roberts      | Southern Star Central Gas Pipeline |
| Krystina Schaefer | PUCO                               |
| Mike Schisler     | Kinder Morgan                      |
| Ed Skiba          | Midwest ISO                        |
| Leonard Tillman   | Balch & Bingham                    |
| Craig Williams    | WECC                               |



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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:** December 5, 2011

Dear Critical Infrastructure Committee Members,

A Critical Infrastructure Committee conference call was held on December 1, 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 from the December 1, 2011 NAESB Board Critical Infrastructure Committee Conference Call

**Administrative:** Mr. Hurley welcomed the participants to conference call and thanked them for attending. Mr. Booe provided the antitrust guidance and called the roll. Mr. Hurley reviewed the draft agenda and it was adopted by consensus.

**Review Recent Board, Legislative and Industry Action** Mr. Hurley provided an update of the recent SCADA system security breaches to the public water utilities of the city of South Houston and a township in Illinois. These breaches are currently being investigated by the FBI and the DHS and it is believed that the hackers gained access to the database of credentials managed by a vendor that provides technical support for the water plants. The major cause for concern is that the breaches are suspected from foreign entities.

Mr. Hurley provided an update of the recent cyber security related legislative activities. Congressman Mike Rodgers released a House version of a cyber security Bill last week, which focuses on an information sharing framework and liability protection. Unfortunately, the House Bill is in conflict with the draft version of the Reid Bill, which grants the DHS significant regulatory power and is expected to be released to the Senate floor in January. It is clear that the two Bills will have to be reconciled through a bi-partisan effort in early 2012. Mr. Hurley also noted that he recently briefed the House Permanent Select Committee on Intelligence and highlighted the benefits of public/private partnerships using NAESB as a successful example.

**Other Business** Mr. Hurley and Mr. Booe recommended that the CIC schedule meetings on an as needed basis during 2012. The participants supported the recommendation.

**Adjourn:** Mr. Kirby moved to adjourn the meeting at 1:21 pm Central and the meeting was adjourned by consensus.

**Work Papers Provided for the Meeting:** **Meeting Related Documents:**

- November 3, 2011 meeting notes: [http://www.naesb.org/pdf4/bd\\_cic\\_110311notes.doc](http://www.naesb.org/pdf4/bd_cic_110311notes.doc)



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### Notes from the December 1, 2011 NAESB Board Critical Infrastructure Committee Conference Call

#### CRITICAL INFRASTRUCTURE COMMITTEE MEMBERS

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



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### Notes from the December 1, 2011 NAESB Board Critical Infrastructure Committee Conference Call

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#### OTHER ATTENDEES

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| <b>Attendee</b>   | <b>Organization</b>                    |
|-------------------|--|
| Jonathan Booe     | NAESB                                  |
| Rachel Bryan      | Stryve Advisors, LLC                   |
| Kathryn Burch     | Spectra Energy                         |
| Jianmei Chai      | Consumers Energy                       |
| Scott Coe         | UISOL                                  |
| Pete Connor       |  |
| Mike Dionisio     | Devon                                  |
| Mary Doss         | ANR Pipeline                           |
| Richard Ishikawa  | Southern California Edison             |
| Annunciata Marino | Pennsylvania Public Utility Commission |
| Ed Skiba          | Midwest ISO                            |
| Norm Spooner      | APS                                    |
| Caroline Trum     | NAESB                                  |



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NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ)  
DECEMBER 5, 2011

### 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:

R11004 (MC11001-04) - For NAESB WGQ Version 2.1, add the code values 'Non-Renewal Charge' and 'AOS' for the data element "Rate Identification Code" in data sets: Transactional Reporting – Capacity Release (NAESB WGQ Standard No. 5.4.20), Transactional Reporting – Firm Transportation (NAESB WGQ Standard No. 5.4.21), Offer (NAESB WGQ Standard No. 5.4.24), Bid (NAESB WGQ Standard No. 5.4.25) and Award Download (NAESB WGQ Standard No. 5.4.26) approved by the WGQ Executive Committee on August 18, 2011.

Final Action: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_wgq\\_r11004\\_mc11001-04.doc](http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r11004_mc11001-04.doc) – Ratified September 19, 2011

R10005- Modify 5.3.26 to eliminate possible disputes over consequences associated with Bid Basis' not selected by Releasing Shipper approved by the WGQ Executive Committee on August 18, 2011.

Final Action: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_wgq\\_r10005.doc](http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r10005.doc) – Ratified September 19, 2011

R09008 - Add two business conditional data elements to the Offer Upload, NAESB WGQ Standard 5.4.7 for (1) Responsibility for Out of Path Overrun and (2) Out of Path Location Changes. These data elements should be conditional in standards 5.4.1 and 5.4.3 approved by the WGQ Executive Committee on August 18, 2011.

Final Action: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_wgq\\_r09008.doc](http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r09008.doc) – Ratified September 19, 2011

R09009 - Add four business conditional data elements to the imbalance trading NAESB WGQ data sets 2.4.11—2.4.16 approved by the WGQ Executive Committee on August 18, 2011.

Final Action: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_wgq\\_r09009.doc](http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r09009.doc) – Ratified September 19, 2011

2011 WGQ Annual Plan Item 6 – **Decline** to implement any revisions or modification to 2006 NAESB Base Contract after industry input and discussion under Annual Plan Item 6. "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)" approved by the WGQ Executive Committee on August 18, 2011.

Final Action (no action to be taken): [http://www.naesb.org/pdf4/wgq\\_2011\\_ap\\_6\\_ec081811\\_fa.doc](http://www.naesb.org/pdf4/wgq_2011_ap_6_ec081811_fa.doc) - (No further action needed)

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 approved by the WGQ EC via Notational Ballot on May 19, 2011.

Final Action: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_wgq\\_c10001.doc](http://www.naesb.org/member_login_form.asp?doc=fa_wgq_c10001.doc) - (Ratified August 1, 2011)



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### NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ) DECEMBER 5, 2011

R10009 - Add sender's option data element "Open Season ID" to Transactional Reporting – Firm Transportation – NAESB WGQ Standard No. 5.4.21 approved by the WGQ Executive Committee May 19, 2011.

Final Action: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_wgq\\_r10009.doc](http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r10009.doc) - Ratified July 1, 2011

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.

Final Action: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_wgq\\_r10003.doc](http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r10003.doc) – Ratified 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.

Final Action: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_wgq\\_r09016.doc](http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r09016.doc) – Ratified April 18, 2011

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.

Final Action: [http://www.naesb.org/member\\_login\\_check.asp?doc=fa\\_wgq\\_r09018.doc](http://www.naesb.org/member_login_check.asp?doc=fa_wgq_r09018.doc) - Ratified March 17, 2011

R10007 - Change the Offer, Bid and Award downloads to have the ability to communicate multiple indexed rates for a given offer approved by the WGQ EC on February 3, 2011.

Final Action: (no changes necessary) [http://www.naesb.org/pdf4/wgq\\_r10007\\_rec\\_123010.doc](http://www.naesb.org/pdf4/wgq_r10007_rec_123010.doc) - (No further action needed)

C11002: Clarification or interpretation request: Clarify the effects of Bidder Lesser Quantity Indicator on the disclosure of minimum condition elements for EBB / EDI Download portion of NAESB Standard Number 5.4.25. Does the Offer's Disclose Indicator or Releasing Shipper Lesser Quantity Indicator have any effect on the disclosure of the minimum condition elements for Bids 24 as approved by the WGQ Executive Committee on October 19, 2011. (NOTE: The portion of clarification request C11002 determined to be a request for minor correction and transferred to the Information Requirements Subcommittee has been assigned minor correction number MC11022:

[http://www.naesb.org/pdf4/wgq\\_mc11022.doc](http://www.naesb.org/pdf4/wgq_mc11022.doc).)

Final Action: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_wgq\\_c11002.doc](http://www.naesb.org/member_login_form.asp?doc=fa_wgq_c11002.doc) - Ratified November 28, 2011

C11003: Clarification or interpretation request: Clarify the effects of Disclosure Indicator, Minimum Rate Disclosure Indicator, Releasing Shipper Lesser Quantity Indicator, and Shorter Term Indicator on the disclosure of minimum condition elements for EBB / EDI Download portion of NAESB Standard Number 5.4.24 as approved by the WGQ Executive Committee on October 19, 2011. (NOTE: The portion of clarification request C11003 determined to be a request for minor correction and transferred to the Information Requirements Subcommittee has been assigned minor correction number MC11022: [http://www.naesb.org/pdf4/wgq\\_mc11022.doc](http://www.naesb.org/pdf4/wgq_mc11022.doc).)

Final Action: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_wgq\\_c11003.doc](http://www.naesb.org/member_login_form.asp?doc=fa_wgq_c11003.doc) - Ratified November 28, 2011



## North American Energy Standards Board

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### NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ) DECEMBER 5, 2011

R97064-H: Correct the NAESB implementation guides to use approved ASC X12 code values through requests to X12 to adopt the NAESB codes, or through changes to the code values to use the X12 specified codes as approved by the WGQ Executive Committee on October 27, 2011.

Final Action - H: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_wgq\\_r97064\\_h.doc](http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r97064_h.doc)

Attachment 1: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_wgq\\_r97064\\_h\\_attach1.doc](http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r97064_h_attach1.doc)

Attachment 2: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_wgq\\_r97064\\_h\\_attach2.doc](http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r97064_h_attach2.doc)

Attachment 3: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_wgq\\_r97064\\_h\\_attach3.doc](http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r97064_h_attach3.doc)

Attachment 4: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_wgq\\_r97064\\_h\\_attach4.doc](http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r97064_h_attach4.doc)

Attachment 5: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_wgq\\_r97064\\_h\\_attach5.doc](http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r97064_h_attach5.doc) – *Ratified December 2, 2011*

#### Recommendations:

2011 WGQ Annual Plan Item 7 - Determine if location common codes as formulated are needed. 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.

Recommendation: [http://www.naesb.org/pdf4/wgq\\_2011\\_api\\_7\\_rec.doc](http://www.naesb.org/pdf4/wgq_2011_api_7_rec.doc) (*approved by the WGQ EC on October 27, 2011 submitted to WGQ IR/Technical for processing*)

2011 WGQ Annual Plan Item 8.a - Changes to the NAESB WGQ Standard Nos. 10.2.8 and 10.2.30 to support consistency with Retail and WEQ Activities as approved by the WGQ Executive Committee via notational ballot on November 23, 2011.

Recommendation: [http://www.naesb.org/member\\_login\\_form.asp?doc=wgq\\_rat112811\\_wgq\\_2011\\_api\\_8a\\_rec.doc](http://www.naesb.org/member_login_form.asp?doc=wgq_rat112811_wgq_2011_api_8a_rec.doc)

Member Ratification: [http://www.naesb.org/member\\_login\\_check.asp?doc=wgq\\_rat112811ballot.doc](http://www.naesb.org/member_login_check.asp?doc=wgq_rat112811ballot.doc) – *Due December 28, 2011*

R11007: Modify the Discount Indicator Code Value Description for Code Value 1 and 2

Recommendation: [http://www.naesb.org/pdf4/wgq\\_r11007\\_rec\\_111011.doc](http://www.naesb.org/pdf4/wgq_r11007_rec_111011.doc)

Request for Comments: [http://www.naesb.org/pdf4/wgq\\_111011reqcom.doc](http://www.naesb.org/pdf4/wgq_111011reqcom.doc) - *Due December 12, 2011*

R05027: Add two new data elements to the Nomination and Scheduled Quantity data sets that 1) permit the service requestor to identify a specified path for the nominated transaction, and 2) provide shippers the ability to identify the specific month of an imbalance they may want to clear.

Recommendation: [http://www.naesb.org/pdf4/wgq\\_r05027\\_rec\\_111011.doc](http://www.naesb.org/pdf4/wgq_r05027_rec_111011.doc)

Request for Comments: [http://www.naesb.org/pdf4/wgq\\_111011reqcom.doc](http://www.naesb.org/pdf4/wgq_111011reqcom.doc) - *Due December 12, 2011*

R10004: Change the usage of the element Ending Time from Mandatory to Business Conditional in the Nominations dataset; Change the usage of the elements Beginning Time and Ending Time from Mandatory to Business Conditional in the Pre-determined Allocation dataset and Change the usage of Beginning Time (or equivalent element for the specific document below) and Ending Time (or equivalent element for the specific document below) from Mandatory to Senders Option in the Request for Confirmation, Confirmation Response, Scheduled Quantity and Scheduled Quantity for Operator, Allocation, Shipper Imbalance, Measurement Information, Measured Volume Audit Statement, and Transportation / Sales Invoice documents.

Recommendation: - [http://www.naesb.org/pdf4/wgq\\_r10004\\_rec\\_111011.doc](http://www.naesb.org/pdf4/wgq_r10004_rec_111011.doc)

Request for Comments: [http://www.naesb.org/pdf4/wgq\\_111011reqcom.doc](http://www.naesb.org/pdf4/wgq_111011reqcom.doc) - *Due December 12, 2011*



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### NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ) DECEMBER 5, 2011

#### 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\\_011811.doc](http://www.naesb.org/pdf4/wgq_mc10038_rec_011811.doc) (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\\_011811.doc](http://www.naesb.org/pdf4/wgq_mc10040_rec_011811.doc) (Effective date April 25, 2011)

MC11005 – For NAESB WGQ Version 2.1, This request proposes the addition of 4 code values for the data element “Rate Identification Code” in the following datasets for the NAESB WGQ Version 2.0 release: NAESB WGQ Standard 5.4.20 – Transactional Reporting – Capacity Release and NAESB WGQ Standard 5.4.21 – Transactional Reporting – Firm Transportation. – approved by the WGQ EC via Notational Ballot on April 8, 2011.

Recommendation: [http://www.naesb.org/pdf4/wgq\\_mc11005\\_rec\\_040811.doc](http://www.naesb.org/pdf4/wgq_mc11005_rec_040811.doc) (Effective date May 13, 2011)

MC10004/MC10013 – For NAESB WGQ Version 2.1, Add additional Charge Type and Service Requestor Level Charge/Allowance Amount Descriptor code values to NAESB WGQ Standard No. 3.4.1 as approved by the WGQ Executive Committee via Notational Ballot on April 29, 2011.

Recommendation: [http://www.naesb.org/pdf4/wgq\\_mc10004\\_mc10013\\_rec\\_042911.doc](http://www.naesb.org/pdf4/wgq_mc10004_mc10013_rec_042911.doc) (Effective date June 16, 2011)

MC11013 – For NAESB WGQ Versions 1.9 and 2.0, Minor Correction of usage for data element Special Terms and Miscellaneous Notes in the NAESB WGQ Standard No. 5.4.25 – Bid approved by the WGQ EC on May 5, 2011.

Recommendation: [http://www.naesb.org/pdf4/wgq\\_mc11013\\_mc11014\\_rec\\_050511.doc](http://www.naesb.org/pdf4/wgq_mc11013_mc11014_rec_050511.doc) (Effective date June 3, 2011)

MC11014 – Errata for miscellaneous corrections to NAESB WGQ Standards Versions 1.9 and 2.0 approved by the WGQ EC on May 5, 2011.

Recommendation: [http://www.naesb.org/pdf4/wgq\\_mc11013\\_mc11014\\_rec\\_050511.doc](http://www.naesb.org/pdf4/wgq_mc11013_mc11014_rec_050511.doc) (Effective date June 3, 2011)

MC11016 – For NAESB WGQ Version 2.0 and WEQ Version 002.1, 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 April 18, 2011 approved by the WGQ EC on May 5, 2011 and WEQ EC via Notational Ballot on May 20, 2011.

Recommendation: [http://www.naesb.org/pdf4/weq\\_wgq\\_mc11016.doc](http://www.naesb.org/pdf4/weq_wgq_mc11016.doc) (Effective date June 3, 2011)



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### NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ) DECEMBER 5, 2011

MC11017 – For NAESB WGQ Version 2.0, minor correction to correct the code values for the data element in ‘Allowable Re-Release Indicator’ in data set, Offer (NAESB WGQ Standard No. 5.4.24) approved by the WGQ Executive Committee on August 18, 2011.

Recommendation: [http://www.naesb.org/pdf4/wgq\\_mc11017\\_rec\\_081811.doc](http://www.naesb.org/pdf4/wgq_mc11017_rec_081811.doc) (Effective date September 19, 2011)

MC11018 – For NAESB WGQ Version 2.1, minor correction to add one code value for the data element Reduction Reason the data sets, Confirmation Response (NAESB WGQ Standard No. 1.4.4), Scheduled Quantity (NAESB WGQ Standard No. 1.4.5) and Scheduled Quantity for Operator (NAESB WGQ Standard No. 1.4.6) approved by the WGQ Executive Committee on August 18, 2011.

Recommendation: [http://www.naesb.org/pdf4/wgq\\_mc11018\\_rec\\_081811.doc](http://www.naesb.org/pdf4/wgq_mc11018_rec_081811.doc) (Effective date September 19, 2011)

MC11001-11004 (R11004) – For NAESB WGQ Version 2.1, add the code values ‘Non-Renewal Charge’ and ‘AOS’ for the data element “Rate Identification Code” in data sets: Transactional Reporting – Capacity Release (NAESB WGQ Standard No. 5.4.20), Transactional Reporting – Firm Transportation (NAESB WGQ Standard No. 5.4.21), Offer (NAESB WGQ Standard No. 5.4.24), Bid (NAESB WGQ Standard No. 5.4.25) and Award Download (NAESB WGQ Standard No. 5.4.26) approved by the WGQ Executive Committee on August 18, 2011.

Recommendation: [http://www.naesb.org/member\\_login\\_form.asp?doc=wgq\\_rat081911\\_r11004\\_mc11001-04\\_rec.doc](http://www.naesb.org/member_login_form.asp?doc=wgq_rat081911_r11004_mc11001-04_rec.doc) – (Ratification for R11004 portion ended September 19, 2011 (Effective date))

MC11019 – For WGQ Version 2.1, Add the code values ‘Swing Service Overtake’ and ‘Unauthorized Take’ for the data element “Transaction Type” in the following data sets: NAESB WGQ Standard No. 2.4.3 – Allocation, NAESB WGQ Standard No. 2.4.4 – Shipper Imbalance and NAESB WGQ Standard No. 3.4.1 – Transportation/Sales Invoice as approved by the WGQ EC on October 27, 2011.

Recommendation: [http://www.naesb.org/pdf4/wgq\\_mc11019\\_rec\\_102711.doc](http://www.naesb.org/pdf4/wgq_mc11019_rec_102711.doc)

Request for Comments: [http://www.naesb.org/pdf4/wgq\\_mc11021reqcom.doc](http://www.naesb.org/pdf4/wgq_mc11021reqcom.doc) - Due November 16, 2011 (Effective date December 2, 2011)

MC11020 – For NAESB WGQ Version 2.0, Minor correction of inadvertent typographical error in published NAESB Standard 6.3.1 - NAESB Base Contract for Sale and Purchase of Natural Gas dated September 5, 2006 approved by the WGQ Executive Committee on August 18, 2011.

Recommendation: [http://www.naesb.org/pdf4/wgq\\_mc11020\\_rec\\_081811.doc](http://www.naesb.org/pdf4/wgq_mc11020_rec_081811.doc) (Effective date September 19, 2011)

MC11021 – For NAESB WGQ Version 2.1, add the code value “Reservation/Enhanced Nomination Service” for data element “Transaction Type” in data set, Transportation/Sales Invoice (NAESB WGQ Standard No. 3.4.1) as approved by the WGQ Executive Committee on October 27, 2011.

Recommendation: [http://www.naesb.org/pdf4/wgq\\_mc11021\\_rec\\_102711.doc](http://www.naesb.org/pdf4/wgq_mc11021_rec_102711.doc)

Request for Comments: [http://www.naesb.org/pdf4/wgq\\_mc11021reqcom.doc](http://www.naesb.org/pdf4/wgq_mc11021reqcom.doc) - Due November 16, 2011 (Effective date December 2, 2011)



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### NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ) DECEMBER 5, 2011

MC11022 – For NAESB WGQ Version 2.0, minor correction to the conditions associated with the download of the Bid (NAESB WGQ Standard No. 5.4.25) for the following data elements: Bid Minimum Quantity - Contract and Bid Minimum Quantity – Location. Such review should consider the Bidder’s selection in the Bidder Lesser Quantity Indicator data element. Minor correction to the conditions associated with the download of the Offer (NAESB WGQ Standard No. 5.4.24) for the following data elements: Minimum Offer Quantity – Contract, Minimum Offer Quantity – Location, Minimum Term, Minimum Acceptable Percentage of Maximum Tariff Rate, and Minimum Acceptable Rate. Such review should consider the Releaser’s selection in the Disclose Indicator, Releasing Shipper Lesser Quantity Indicator, Shorter Term Indicator, and Minimum Rate Disclosure Indicator approved by the WGQ Executive Committee on August 18, 2011.

Recommendation: [http://www.naesb.org/pdf4/wgq\\_mc11022\\_rec\\_081811.doc](http://www.naesb.org/pdf4/wgq_mc11022_rec_081811.doc) (Effective date September 19, 2011)

MC11023 – Errata for NAESB WGQ Version 2.0 - Correct the Data Element Cross Reference to ASCX12 for the N1 sub-detail usages for the data elements Upstream Identifier Code/Upstream Identifier Proprietary Code and Downstream Identifier Code/Downstream Identifier Proprietary Code in the column ‘Usage with Nominator’s Tracking ID P N T U’ from ‘nu nu nu nu’ to ‘M C nu C’ approved by the WGQ Executive Committee on August 18, 2011.

Recommendation: [http://www.naesb.org/pdf4/wgq\\_mc11023\\_rec\\_081811.doc](http://www.naesb.org/pdf4/wgq_mc11023_rec_081811.doc) (Effective date September 19, 2011)

MC11024 – For NAESB WGQ Version 2.0, minor correction to add the code value "Kansas Ad Valorem Tax Refund" for data element "Charge Type" in data set, Transportation/Sales Invoice (NAESB WGQ Standard No. 3.4.1) - NO ACTION TO BE TAKEN approved by the WGQ Executive Committee on August 18, 2011.

Minor Correction Request: [http://www.naesb.org/pdf4/wgq\\_mc11024\\_rec\\_081811.doc](http://www.naesb.org/pdf4/wgq_mc11024_rec_081811.doc) - NO ACTION TO BE TAKEN

MC11006 – For NAESB WGQ Version 2.1, minor correction to add a new Nomination Quick Response Validation Codes - To the Nomination Quick Response document (1.4.2), add new Nominations Quick Response Validation Codes (Sub-detail).

Minor Correction Request: [http://www.naesb.org/pdf4/wgq\\_mc11006.doc](http://www.naesb.org/pdf4/wgq_mc11006.doc)

MC11007 – For NAESB WGQ Version 2.1, minor correction to NAESB WGQ Standard No. 5.4.21: Transactional Reporting - Firm, add a code value to the Sender’s Option data element “Capacity Type Indicator” for capacity that is “Primary thru Storage.”

Minor Correction Request: [http://www.naesb.org/pdf4/wgq\\_mc11007.doc](http://www.naesb.org/pdf4/wgq_mc11007.doc)

MC11025 – For NAESB Version 2.1, minor correction to NAESB WGQ Standard No. 5.4.22: Transactional Reporting – Interruptible, add a code value to the data element “Rate Identification Code” for authorized overrun approved by the WGQ Executive Committee on August 18, 2011.

Recommendation: [http://www.naesb.org/pdf4/wgq\\_mc11025\\_rec\\_081811.doc](http://www.naesb.org/pdf4/wgq_mc11025_rec_081811.doc) (Effective date September 19, 2011)

MC11026 – For NAESB Version 2.1, minor correction to NAESB WGQ Standard Nos. 1.4.5 (Scheduled Quantity) and 1.4.6 Scheduled Quantity for Operator - request is for new Scheduled Quantity and Scheduled Quantity for Operator Reduction Reason codes as approved by the WGQ Executive Committee on October 27, 2011.

Recommendation: [http://www.naesb.org/pdf4/wgq\\_mc11026\\_rec\\_102711.doc](http://www.naesb.org/pdf4/wgq_mc11026_rec_102711.doc)

Request for Comments: [http://www.naesb.org/pdf4/wgq\\_mc110211reqcom.doc](http://www.naesb.org/pdf4/wgq_mc110211reqcom.doc) - Due November 16, 2011 (Effective date December 2, 2011)



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## NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ) DECEMBER 5, 2011

MC11027 – For NAESB Version 2.0, errata to NAESB WGQ Standard No. 4.3.29 - Notice Type is spelled “Operational flow order” as is the Code Value Description in Standard 5.4.16. Both the “f” and the “o” should be capitalized. The changes also need to be made in the QEDM manual, Booklet 1 of 1 as approved by the WGQ Executive Committee on October 27, 2011.

Recommendation: [http://www.naesb.org/pdf4/wgq\\_mc11027\\_rec\\_102711.doc](http://www.naesb.org/pdf4/wgq_mc11027_rec_102711.doc)

Request for Comments: [http://www.naesb.org/pdf4/wgq\\_mc110211reqcom.doc](http://www.naesb.org/pdf4/wgq_mc110211reqcom.doc) - Due November 16, 2011

(Effective date December 2, 2011)

MC11028 – For NAESB Version 2.1, addition of 1 code value for the data element “Rate Charged Reference” in the following datasets for the NAESB WGQ Standard 5.4.21 - Transactional Reporting – Firm Transportation.

Minor Correction: [http://www.naesb.org/pdf4/wgq\\_mc11028.docx](http://www.naesb.org/pdf4/wgq_mc11028.docx)

MC11030 – For NAESB Versions 1.9 and 2.0, Errata to delete the duplicate data element “Transportation Service Provider” in the Nomination Quick Response – NAESB WGQ Standard No. 1.4.2 as approved by the WGQ Executive Committee on October 27, 2011.

Recommendation: [http://www.naesb.org/pdf4/wgq\\_mc11030\\_rec\\_102711.doc](http://www.naesb.org/pdf4/wgq_mc11030_rec_102711.doc)

Request for Comments: [http://www.naesb.org/pdf4/wgq\\_mc110211reqcom.doc](http://www.naesb.org/pdf4/wgq_mc110211reqcom.doc) - Due November 16, 2011

(Effective date December 2, 2011)

MC11031 – For NAESB Version 2.0, Errata to correct the Technical Implementation of Business Process, Code Values for the Data Element Associated Transaction Set, and ASC X12 Mapping Guidelines in Note/Special Instruction - NAESB WGQ Standard No. 5.4.17.

Recommendation: [http://www.naesb.org/pdf4/wgq\\_mc11031\\_rec\\_112111.doc](http://www.naesb.org/pdf4/wgq_mc11031_rec_112111.doc) (WGQ EC notational ballots due December 5, 2011)

### TIMELINE:

- Version 2.1 is scheduled for publication in July 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 003.0 – WHOLESALE ELECTRIC QUADRANT (WEQ)  
 NOVEMBER 29, 2011

### ACTIONS TO BE APPLIED TO WEQ VERSION 002.1 TO CREATE WEQ VERSION 003.0:

Version 002.1 was published on March 11, 2009.

#### 2009-11:

##### 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 003.0 – WHOLESALE ELECTRIC QUADRANT (WEQ) NOVEMBER 29, 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 1.d – Monitor and develop NAESB business practices as needed to complement NERC reliability standards for FAC-012 and FAC-013 - [http://www.naesb.org/pdf4/weq\\_2010\\_api\\_1d\\_rec.doc](http://www.naesb.org/pdf4/weq_2010_api_1d_rec.doc) - Approved by the WEQ EC on October 26, 2010 (*No further action needed*)

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 (a-c) – 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: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_2010\\_weq\\_api\\_6\\_a-c.doc](http://www.naesb.org/member_login_form.asp?doc=fa_2010_weq_api_6_a-c.doc)

2010 WEQ Annual Plan Item 6a(ii) – 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: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_2010\\_weq\\_api\\_6\\_a\\_ii.doc](http://www.naesb.org/member_login_form.asp?doc=fa_2010_weq_api_6_a_ii.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: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_2010\\_weq\\_api\\_6\\_b\\_ii.doc](http://www.naesb.org/member_login_form.asp?doc=fa_2010_weq_api_6_b_ii.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: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_2010\\_weq\\_api\\_6\\_c\\_ii.doc](http://www.naesb.org/member_login_form.asp?doc=fa_2010_weq_api_6_c_ii.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: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_2010\\_weq\\_api\\_4a\\_4b.doc](http://www.naesb.org/member_login_form.asp?doc=fa_2010_weq_api_4a_4b.doc)

2010 WEQ Annual Plan Item 4d - Business Practice Standards for Measurement Verification of Energy Efficiency Products as approved by the WEQ EC via notational ballot on April 8, 2011 – Ratified May 13, 2011: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_2010\\_weq\\_api\\_4d.doc](http://www.naesb.org/member_login_form.asp?doc=fa_2010_weq_api_4d.doc)



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### NAESB UPDATE: VERSION 003.0 – WHOLESALE ELECTRIC QUADRANT (WEQ) NOVEMBER 29, 2011

2011 WEQ Annual Plan Items 2.a.iii.1 through 2.1.iii.3 - Service Across Multiple Transmission Systems (SAMTS) as reviewed and subsequently approved by the WEQ Executive Committee via notational ballot on July 8, 2011 – Ratified August 11, 2011:

[http://www.naesb.org/member\\_login\\_check.asp?doc=fa\\_weq\\_2011\\_ap\\_2aiii1\\_to\\_2aiii3.doc](http://www.naesb.org/member_login_check.asp?doc=fa_weq_2011_ap_2aiii1_to_2aiii3.doc)

2011 WEQ Annual Plan Item 2.a.iv.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 - [http://www.naesb.org/pdf4/weq\\_2011\\_api\\_2\\_a\\_iv\\_1\\_rec.doc](http://www.naesb.org/pdf4/weq_2011_api_2_a_iv_1_rec.doc) - Approved by the WEQ EC on October 25, 2011 (*No further action needed*)

2011 WEQ Annual Plan Item 7.a - Review standards 001-14.1.3 and 001-15.1.2 based on FERC Order No. 676-E as approved by the WEQ Executive Committee on October 25, 2011 – Ratified November 28, 2011: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_weq\\_2011\\_api\\_7a.doc](http://www.naesb.org/member_login_form.asp?doc=fa_weq_2011_api_7a.doc)

2011 WEQ Annual Plan Item 5.a / R08001 / R08002 / R08003 / R08005 - Make consistency changes to Version 2.2 as approved by the WEQ Executive Committee on October 25, 2011 – Ratified November 28, 2011: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_weq\\_2011\\_api\\_5a\\_r08001\\_r08002\\_r08003\\_r08005.doc](http://www.naesb.org/member_login_form.asp?doc=fa_weq_2011_api_5a_r08001_r08002_r08003_r08005.doc)

#### Recommendations:

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*

#### Minor Corrections:

Minor Correction MC11029, Submitted by JT Wood, Southern Company Services Inc. – Minor Correction to correct inadvertent typographical errors found during the application of Final Action 2011 WEQ Annual Plan Items 2.a.iii.1 through 2.a.iii.3 – Service Across Multiple Transmission Systems (SAMTS), ratified August 11, 2011 by the NAESB Office for publication in Version 003 of the NAESB WEQ Business Practice Standards as approved by the WEQ EC on October 25, 2011: [http://www.naesb.org/pdf4/weq\\_mc11029\\_102511.doc](http://www.naesb.org/pdf4/weq_mc11029_102511.doc) - (*Effective date December 5, 2011*)



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### NAESB UPDATE: VERSION 003.0 – WHOLESALE ELECTRIC QUADRANT (WEQ) NOVEMBER 29, 2011

Minor Correction MC11016, Submitted by D. Rager, NAESB – For NAESB WGQ Version 2.0 and WEQ Version 002.1, 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 April 18, 2011 approved by the WGQ EC on May 5, 2011 and WEQ EC via Notational Ballot on May 20, 2011:

[http://www.naesb.org/pdf4/weq\\_wgq\\_mc11016\\_052011.doc](http://www.naesb.org/pdf4/weq_wgq_mc11016_052011.doc) - (Effective date June 23, 2011)

Minor Correction MC11015, Submitted by Bob Harshbarger, Puget Sound Energy – For NAESB WEQ Version 002.1, Minor Correction to NAESB WEQ Electronic Tagging – Functional Specifications, Version 1.8.1 - Correct links to e-Tag 1.8.1 XML Schema and WECC web site in NAESB WEQ Electronic Tagging – Functional Specifications, Version 1.8.1 approved by the WEQ EC via Notational Ballot on May 20, 2011:

[http://www.naesb.org/pdf4/weq\\_mc11015\\_052011.doc](http://www.naesb.org/pdf4/weq_mc11015_052011.doc) - (Effective date June 23, 2011)

Minor Correction MC11009, Submitted by Ed Skiba, Midwest ISO – For NAESB WEQ Version 002.2, Minor Correction to Diagram for Meter Before/Meter After Definition (WEQ-000) approved by the WEQ EC via Notational Ballot on April 8, 2011: [http://www.naesb.org/pdf4/weq\\_mc11009\\_rec\\_040811.doc](http://www.naesb.org/pdf4/weq_mc11009_rec_040811.doc) (Effective date May 13, 2011)

Minor Correction MC11011, Submitted by Kathy York, Jim Castle and Ed Skiba – For NAESB WEQ Version 002.1, Minor Correction to Manual Time Error Correction (WEQ-006) - to suspend the NAESB Business Practice Standards for WEQ 006-1 through WEQ 006-12 based on the motion approved by the NERC Operating Committee at their March 9, 2011 meeting approved by the WEQ EC via Notational Ballot on April 8, 2011:

[http://www.naesb.org/pdf4/weq\\_mc11011\\_rec\\_040811.doc](http://www.naesb.org/pdf4/weq_mc11011_rec_040811.doc) (Effective date May 13, 2011)

Minor Correction MC10041, Submitted by D. Rager, NAESB - For NAESB WGQ Version 2.0 and WEQ Version 002.1, 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 approved by the WEQ and WGQ ECs via Notational Ballot on December 20, 2010:

[http://www.naesb.org/pdf4/weq\\_wgq\\_mc10041\\_122010.doc](http://www.naesb.org/pdf4/weq_wgq_mc10041_122010.doc) (Effective date February 3, 2011)

Minor Correction MC10033, Submitted by Y. Coleman, Bonneville Power Administration – For NAESB WEQ Version 002.1, WEQ-003 Data Dictionary and WEQ-013 Implementation Guide approved by the WEQ EC on October 26, 2010: [http://www.naesb.org/pdf4/weq\\_mc10033\\_102610.doc](http://www.naesb.org/pdf4/weq_mc10033_102610.doc) (Effective date January 3, 2011)

Minor Correction MC10032, Submitted by E. Skiba, JT. Wood, N. Saini, M.Otondo – For NAESB WEQ Version 002.1, WEQ 2010 AP Item 1.a.i – Interim Solution for Parallel Flow Visualization revised/approved by the WEQ EC on October 26, 2010: [http://www.naesb.org/pdf4/weq\\_mc10032\\_102610.doc](http://www.naesb.org/pdf4/weq_mc10032_102610.doc) (Effective date January 3, 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) revised/approved by the WEQ EC on August 17, 2010 and the WGQ EC on August 19, 2010: [http://www.naesb.org/pdf4/wgq\\_weq\\_mc10019\\_revised.doc](http://www.naesb.org/pdf4/wgq_weq_mc10019_revised.doc) (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. revised/approved by the WEQ EC on August 17, 2010:

[http://www.naesb.org/pdf4/weq\\_mc10031\\_revised.doc](http://www.naesb.org/pdf4/weq_mc10031_revised.doc) (Effective date October 7, 2010)



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### NAESB UPDATE: VERSION 003.0 – WHOLESALE ELECTRIC QUADRANT (WEQ) NOVEMBER 29, 2011

Minor Correction for WEQ-001 to be applied to Versions 002.1 and 002.2 submitted by JT Wood, Southern Company - approved by the WEQ Executive Committee on October 27, 2009:

[http://www.naesb.org/pdf4/weq\\_mc111209\\_attach1\\_revised.doc](http://www.naesb.org/pdf4/weq_mc111209_attach1_revised.doc) (Effective date December 14, 2009)

#### TIMELINE:

- Version 003.0 is scheduled for publication second 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 2.0– RETAIL ELECTRIC AND RETAIL GAS QUADRANT (REQ/RGQ) OCTOBER 18, 2011

### ACTIONS TO BE APPLIED TO RETAIL VERSION 1.3 TO CREATE RETAIL VERSION 2.0:

Version 1.3 was published on March 31, 2011.

#### 2011-12:

##### Final Actions:

2011 Retail Annual Plan Item 7 – Supplier Marketing Practices as approved by the REQ and RGQ Executive Committees on August 17, 2011.

Final Action: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_retail\\_2011\\_ap\\_7.doc](http://www.naesb.org/member_login_form.asp?doc=fa_retail_2011_ap_7.doc) – Ratified September 19, 2011

2011 Retail Annual Plan Item 8(d)/R10012 – Third Party Access to Smart Meter-based Information as approved by the REQ Executive Committee on July 7, 2011.

Final Action: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_req\\_r10012.doc](http://www.naesb.org/member_login_form.asp?doc=fa_req_r10012.doc) - Ratified August 8, 2011

2011 Retail Annual Plan Item 8(c)/R10008 - Develop standards to support inclusion of OpenADE requirements document into the NAESB Smart Grid standards (R10008), specifically to standardize the exchange of Energy Usage Information.

Final Action: [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_req\\_2011\\_ap\\_8c\\_r10008.doc](http://www.naesb.org/member_login_form.asp?doc=fa_req_2011_ap_8c_r10008.doc) – Ratified October 17, 2011

##### Recommendations:

2011 Retail Annual Plan Item 10 – Update Existing Model Business Practices

Recommendation: [http://www.naesb.org/pdf4/retail\\_2011\\_ap\\_10\\_rec.doc](http://www.naesb.org/pdf4/retail_2011_ap_10_rec.doc)

Request for Formal Comments due October 20, 2011: [http://www.naesb.org/pdf4/retail\\_092011\\_reqcom.doc](http://www.naesb.org/pdf4/retail_092011_reqcom.doc)

2011 Retail Annual Plan Items 5(a) and (b) – Additional Registration Agent Processes

Recommendation: [http://www.naesb.org/pdf4/retail\\_2011\\_ap\\_5\\_a-b\\_rec.doc](http://www.naesb.org/pdf4/retail_2011_ap_5_a-b_rec.doc)

Request for Formal Comments due October 14, 2011: [http://www.naesb.org/pdf4/retail\\_091411\\_reqcom.doc](http://www.naesb.org/pdf4/retail_091411_reqcom.doc)

2011 Retail Annual Plan Item 7 (Phase 2) – Supplier Marketing Practices Disclosure Statement Contents

Recommendation: [http://www.naesb.org/pdf4/retail\\_2011\\_ap\\_7\\_phase2\\_rec.doc](http://www.naesb.org/pdf4/retail_2011_ap_7_phase2_rec.doc)

Request for Formal Comments due October 14, 2011: [http://www.naesb.org/pdf4/retail\\_091411\\_reqcom.doc](http://www.naesb.org/pdf4/retail_091411_reqcom.doc)

##### Minor Corrections:

#### TIMELINE:

- Version 2.0 is scheduled for publication in April 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



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**NAESB UPDATE: VERSION 2.0– RETAIL ELECTRIC AND RETAIL GAS QUADRANT (REQ/RGQ)**  
**OCTOBER 18, 2011**

Month - 0

Date of Publication.



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| Quadrant  | Standard Number or Version Number | Item Description   | # of Items   | Members                           |                    | Non-Members <sup>1</sup> |                    | Cost  |
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| WGQ   | 6.3.1                             | Base Contract for Sale and Purchase of Natural Gas - <b>Dated September 5, 2006</b> (includes WGQ 6.3.1.CA – Canadian Addendum)            |  | Free                              | \$25               | \$50                     |                    |       |
|   | 6.3.2                             | Day Trade Interruptible Contract   |  | Free                              | \$25               | \$50                     |                    |       |
|   | 6.3.3                             | Electronic Data Interchange (EDI) Trading Partner Agreement (TPA)  |  | Free                              | \$25               | \$50                     |                    |       |
|   | 6.3.4                             | Gas Funds Transfer Agent Agreement (FTAA)  |  | Free                              | \$25               | \$50                     |                    |       |
|   | 6.5.2                             | Model Operational Balancing Agreement  |  | Free                              | \$25               | \$50                     |                    |       |
|   | 6.5.3                             | Model Credit Support Addendum (CSA)  |  | Free                              | \$25               | \$50                     |                    |       |
|   |                                   | Versions 2.0, 1.9, 1.8, etc.   | Standards Manuals, Booklets and Contracts (CD Only) - <i>Please indicate which version _____</i> |                                   | Free               | \$150                    |                    | \$900 |
|   | Version 2.0                       | Individual Standards Manual or Booklet (E-Mail Only) – <i>Please indicate booklet _____ (example: Nominations, Flowing Gas, etc.)</i>      |  | Free                              |                    | \$100                    |                    |       |
| WEQ   | 010-1                             | Electric Power Funds Transfer Agent Agreement (FTAA)   |  | Free                              | \$25               | \$50                     |                    |       |
|   | Versions 002.1, 002.0, 001, etc.  | Business Practice Standards (CD Only)- <i>Please indicate which version _____</i>  |  | Free                              | \$150              |                          | \$900              |       |
| Retail  | RXQ.6.5                           | Base Contract for Retail Sale and Purchase of Natural Gas or Electricity   |  | Free                              | \$25               | \$50                     |                    |       |
|   | Versions 1.3, 1.2, 1.1, 1.0       | REQ and RGQ Model Business Practices Complete Version (CD Only) - <i>Please indicate which version _____</i>                               |  | Free                              | \$150              |                          | \$900              |       |
|   | Version 1.3                       | Individual REQ and RGQ Model Business Practices Booklet (E-Mail Only) - <i>Please indicate booklet _____ (example: RXQ.1, RXQ.2, etc.)</i> |  | Free                              |                    | \$100                    |                    |       |
| <b>Shipping and Handling:</b> (The Ordering Organization's Federal Express account # must be provided below or shipping charges will be added.) |                                   |  |  |                                   |                    |                          |                    |       |
| <b>TOTAL -</b>  |                                   |  |  |                                   |                    |                          |                    |       |

Allow 24 hours for processing of orders.

Shipping:  **CONTRACTS ONLY** - Send via e-mail to the following e-mail address \_\_\_\_\_  
 Send via standard \*Federal Express and charge to my FedEx account # \_\_\_\_\_ (\*Delivery to PO Box Address NOT Accepted)  
 Send via overnight \*Federal Express or outside the continental US and charge to my FedEx account # \_\_\_\_\_  
 Payment:  Check (payable to "North American Energy Standards Board")

**ATTACHED PAYMENT FORM MUST ACCOMPANY THIS FORM FOR CREDIT CARD PAYMENTS**

1 Non-members may request a 3-day limited waiver for EVALUATION ONLY of our work products as outlined at [http://www.naesb.org/misc/NAESB\\_Nonmember\\_Evaluation\\_LockLizard.pdf](http://www.naesb.org/misc/NAESB_Nonmember_Evaluation_LockLizard.pdf).



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#### NAESB Materials – Credit Card Payment Form (Submit with NAESB Material Order Form)

Name as it appears on Credit Card: \_\_\_\_\_

**Credit Card**

**Billing Address:** \_\_\_\_\_

City/State/

Zip Code: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax Number: \_\_\_\_\_

E-mail: \_\_\_\_\_

Payment Method:

VISA

MASTERCARD

AMER. EXPRESS

Account Number: \_\_\_\_\_

Amount to be Charged: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

Security Code<sup>2</sup>: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_

#### <sup>2</sup>Credit Card Security Code

For your security, we require your credit card's security code. This greatly improves the security of using your credit card online.



If you are using a Visa, MasterCard or Discover, please provide the 3-digit verification number found on the back of your card.

This is a non-embossed number printed on the signature panel on the back, immediately following the account number.



The card security code for your American Express card is a four-digit number located on the front of your credit card, to the right or left above your main credit card number.

This code is a 4-digit, non-embossed number

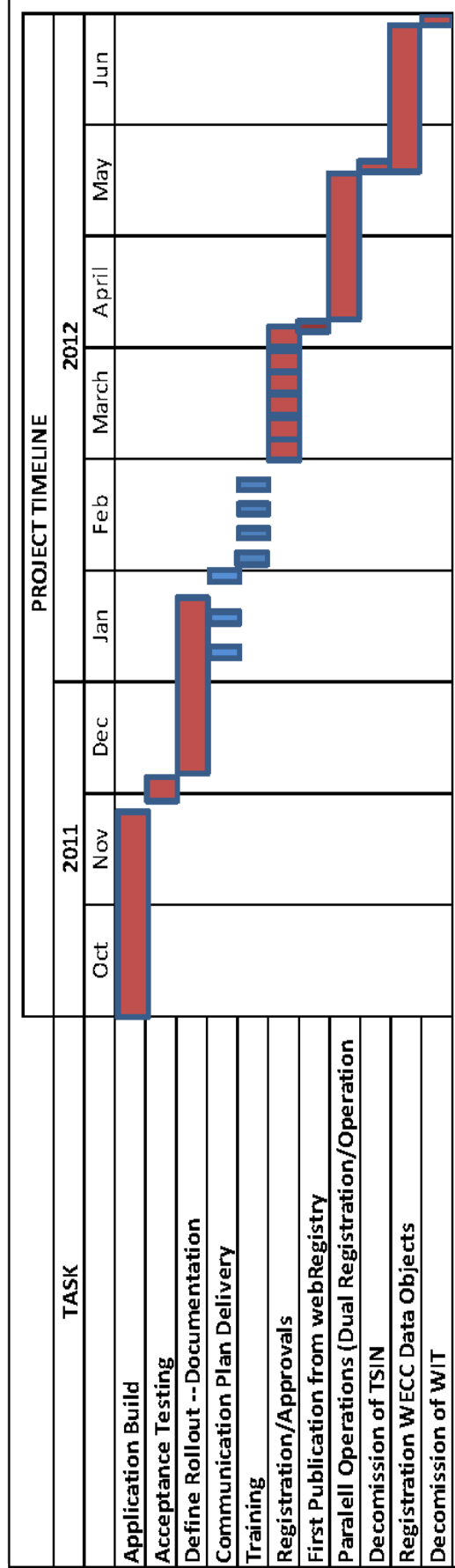


# North American Energy Standards Board

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via posting

**TO:** Interested Industry Parties  
**FROM:** Cory Cummings, NAESB Counsel  
**RE:** Electric Industry Registry Draft Implementation Plan  
**DATE:** December 5, 2011





## North American Energy Standards Board

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### FREQUENTLY ASKED QUESTIONS RELATED TO THE NEW ELECTRIC INDUSTRY REGISTRY

#### Who is going to run the new EIR?

The operation of the NAESB registry will be performed by several parties, each of which having a designated area of responsibility. These parties are:

##### NAESB:

- Performs the background verification and authorizes admission of new applicants to the system.
- Provides authorization of and registration data for certificate authorities.
- Authorizes System Administrators to change certain shared registration data. Authorizes changes in the registry approval process.
- Approves publication policy.
- Instructs System Administrators to perform unscheduled publications.
- Executes approval actions as required by the approval process

##### NERC:

- Verifies credentials of certain types of participants and executes approval actions as required by the approval process.

##### OATI:

- Performs system administration functions in managing system hardware and software.
- Investigates potential software issues reported by participants and NAESB.
- Implements changes in certain non-participant specific data objects per NAESB request and authorization.
- Modifies publication schedule per NAESB instruction.
- Performs unscheduled registry publications per NAESB instruction.
- Trains participants per arrangement with NAESB.
- Executes approval actions as required by the approval process.

##### Data Providers:

- Entities that want to register their data in the webRegistry are responsible for its entry and maintenance in the system.
- Providers will work directly with Data Approvers to perform the timely approval of modifications.

##### Data Approvers:

- Entities with approval rights are responsible for performing timely approval actions on data objects that require their approvals.

#### What is the roll-out schedule? What are the roll-out phases?

- webRegistry is planned to be in operation at the beginning of the second quarter, 2012. Detailed information on training, registration and final production implementation will be available in November.

#### What is the testing schedule?

- OATI is in the process of developing the user acceptance testing criteria. Industry participants will be invited to participate in this testing, which will occur in late November/early December, after the Thanksgiving holiday. Acceptance testing will be coordinated through the JESS with NERC, NAESB and OATI. More detailed information will be available in early November. Testing will occur prior to training and registration.



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### **What kind of training?**

- There will be a combination of training, both face-to-face and webinar. A detailed training schedule will be available in November.

### **Will training be by regions?**

- There will be several physical locations where training will be conducted. The regions where training will be held is to be determined.

### **How much will it cost each entity? Is the cost based on the various roles an entity may have?**

- The initial Registration Fee is \$250 USD per Entity Code/Entity Role pair that will cover the first year of operation. Subsequent renewal years will cost \$150 USD per Entity Code/Entity Role pair.

### **Are digital certificates required?**

- Yes.

### **Will the new EIR have bulk upload capability?**

- Yes, a file upload capability will be provided for a few types of data when necessary to support bulk upload of data, and facilitate object registration (i.e., POR/POD, Source/Sink points, etc.).

### **Will the new EIR contain the WECC registry?**

- Yes, the EIR will replace the WECC registry in the third and final phase of webRegistry rollout. The WECC component will be added after the first two phases, the entity registration and TSIN replacement, have been deployed and are operational.

### **Do currently registered entities have to re-register?**

- Yes. This will be done to clean up any outdated entities that may currently exist in the TSIN.

### **Will registration be by region?**

- No, registration will occur by entity role and object dependencies will be taken into account in a hierarchical fashion. More details on the registration process will be provided in November, 2011.

### **Do Reliability Entities (Regional Entities) have to register (for example, WECC, SPPE, etc.)?**

- Yes, they will be initially registered by OATI. OATI will also register, as exceptions to the normal Entity registration process, the following entities and roles: NAESB, NERC, Reliability Coordinators and Market Operators.

### **Do you have to be a NAESB member to register in the webRegistry?**

- No.

### **What is the process for expanding the types of registered data (a new role or a new set of data etc.)?**

- NAESB will evaluate the need for including any new roles or objects in the Registry and will evaluate how to implement those with OATI.

### **What about existing registry data?**

- All the data will be re-registered in the system.



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### **During the development and roll-out of the new EIR , how will folks “stay-n-tune” on what’s happening and when?**

- NAESB is developing a page on its website to keep the industry up to date with the webRegistry development and implementation.

### **Will there be a single point of EIR information?**

- NAESB will be the point of contact for any questions related to the webRegistry.

### **What is the time overlap to move data from TSIN to the new EIR?**

- The EIR will replace the TSIN registry process and entity and role maintenance. However, the existing TSIN registry APIs (CSV and MDV files) will continue to be supported for 6 months after the changeover.

### **When will the existing TSIN shut-down?**

- As soon as webRegistry is commissioned in production, webRegistry will be the only source of registry information and will totally replace TSIN. However, the current TSIN APIs will be supported by webExchange.

### **How many users from each entity can have access? Who does user administration?**

- An entity can have multiple users. The entity will have a user administrator with the capability of creating additional users for his/her entity.

### **In the new EIR, will you be able to change your username or password?**

- You will be able to change the password associated to your username. However, to modify the username, you must create a new user account.

### **Will each company have its own administrator who determines what individuals have access?**

- Yes, it will be the Company Administrator.

### **Are there different levels of access in the new EIR?**

- Yes. The system is capable of allowing different levels of access.

### **Will there be a search/query capability?**

- Yes, the system will have multiple ways to query data sets in the webRegistry by using different filter options available to the user.

### **If a user has a problem, who will they contact - OATI or NAESB?**

- Any policy issues should be directed to NAESB, any technical issues should be directed to OATI.

### **Do you have to be an OATI customer to register with the webRegistry?**

- To register in webRegistry you do not need to be a current OATI customer.



**RECOMMENDATION TO NAESB WGQ EXECUTIVE COMMITTEE**

**Requester: WGQ Business Practice Subcommittee**  
**Request No.: WGQ 2011 Annual Plan Item No. 7**

**1. RECOMMENDED ACTION:**

- Accept as requested
- Accept as modified below
- Decline

**EFFECT OF EC VOTE TO ACCEPT RECOMMENDED ACTION:**

- Change to Existing Practice
- Status Quo

**2. TYPE OF DEVELOPMENT/MAINTENANCE**

**Per Request:**

- Initiation
- Modification
- Interpretation
- Withdrawal
  
- Principle (x.1.z)
- Definition (x.2.z)
- Business Practice Standard (x.3.z)
- Document (x.4.z)
- Data Element (x.4.z)
- Code Value (x.4.z)
- X12 Implementation Guide
- Business Process Documentation

**Per Recommendation:**

- Initiation
- Modification
- Interpretation
- Withdrawal
  
- Principle (x.1.z)
- Definition (x.2.z)
- Business Practice Standard (x.3.z)
- Document (x.4.z)
- Data Element (x.4.z)
- Code Value (x.4.z)
- X12 Implementation Guide
- Business Process Documentation

**3. RECOMMENDATION**

**SUMMARY:**

Add the following NAESB WGQ Standards:

- 0.3.z1 [formerly part of NAESB WGQ Standard No. 4.3.56]
- 0.3.z2
- 0.3.z3
- 0.3.z4
- 0.3.z5 [formerly part of NAESB WGQ Standard No. 4.3.51]
- 0.3.z6 [formerly part of NAESB WGQ Standard No. 4.3.51]

Modify the following NAESB WGQ Standards:

- 1.3.55
- 1.3.73

Delete the following NAESB WGQ Standards:

- 3.3.1
- 4.3.51
- 4.3.56



## RECOMMENDATION TO NAESB WGQ EXECUTIVE COMMITTEE

Requester: **WGQ Business Practice Subcommittee**  
Request No.: **WGQ 2011 Annual Plan Item No. 7**

### STANDARDS LANGUAGE:

#### **Proposed NAESB WGQ Standard No. 0.3.z1 [formerly part of NAESB WGQ Standard No. 4.3.56]**

The industry should use codes assigned by the Transportation Service Provider for locations and common codes for legal entities when communicating via EDI/EDM, EBB/EDM, and/or FF/EDM. The corresponding code name should also be used in EBB/EDM.

#### **Proposed NAESB WGQ Standard No. 0.3.z2**

For NAESB WGQ, codes for locations are identifiers assigned by the Transportation Service Provider. There are no industry common codes for locations.

#### **Proposed NAESB WGQ Standard No. 0.3.z3**

The Transportation Service Provider (TSP) should provide on its Informational Postings Web Site location information, pursuant to NAESB WGQ Standard No. [0.4.z1], for locations at which transportation transactions may occur. The location information should be made available prior to a location's initial use for NAESB WGQ reporting and transactional business purposes. In addition to the data contained in NAESB WGQ Standard No. [0.4.z1], the TSP may provide additional data.

#### **Proposed NAESB WGQ Standard No. 0.3.z4**

Data provided pursuant to NAESB WGQ Standard No. [0.3.z3] should be provided in a comma separated value (CSV) downloadable file to be described by the Transportation Service Provider. The format of this file should comply with NAESB WGQ Standard Nos. 4.3.80 and 4.3.81.

#### **Proposed NAESB WGQ Standard No. 0.3.z5 [formerly part of NAESB WGQ Standard No. 4.3.51]**

Codes assigned by the Transportation Service Provider for locations should be available for data validation or selection (viewing) on a Customer Activities Web site.

#### **Proposed Modified NAESB WGQ Standard No. 0.3.z6 [formerly part of NAESB WGQ Standard No. 4.3.51]**

Common codes for entities should be available for data validation or selection (viewing) on a Customer Activities Web site and in a standardized downloadable format for use by customers and third party service providers. Cross-references to proprietary codes for entities may be provided on a mutually agreeable basis.

#### **Proposed Modified NAESB WGQ Standard No. 1.3.55**

The Content Area of the nominations browser display should provide access to a query or listing of receipt and delivery point location ~~codes/names/common codes~~ from which to pick, in order to populate this data during transaction entry or selection.

#### **Proposed Modified NAESB WGQ Standard No. 1.3.73**

Where a Transportation Service Provider (TSP) has decided to offer Title Transfer Tracking (TTT) service by means of an arrangement (including an agreement) with a party which will act as the TSP's



## RECOMMENDATION TO NAESB WGQ EXECUTIVE COMMITTEE

**Requester: WGQ Business Practice Subcommittee**  
**Request No.: WGQ 2011 Annual Plan Item No. 7**

designated party, and regardless of communication methodology between Account Holders and such designated party, the TSP should, upon request, identify the Title Transfer Tracking Service Provider(s) (TTTSPs) at a location which have established active TTT arrangements with the TSP. The relevant information to be provided should include the name of each TTTSP, the ID code for each TTTSP used by the TSP, the contract number for each TTTSP assigned by the TSP (where applicable), the location code(s) for each TTTSP assigned by the TSP (where applicable), and the location code(s) nominatable to the TSP for transportation service to or from the location associated with each TTTSP. ~~If, in the future, the common code for locations central repository includes listing of TTTSPs by location, the requirements of this standard may be met.~~

### **Proposed Deleted NAESB WGQ Standard No. 3.3.1**

~~Electronic invoicing functions should use common codes as identified by the NAESB WGQ Common Codes Task Force.~~

### **Proposed Deleted NAESB WGQ Standard No. 4.3.51**

~~NAESB WGQ Common Codes for entity and location should be available for data validation or selection (viewing) on a Customer Activities Web site and in a standardized downloadable format for use by customers and third party service providers. Cross references to proprietary codes may be provided on a mutually agreeable basis.~~

### **Proposed Deleted NAESB WGQ Standard No. 4.3.56**

~~The industry should use common codes for location points and legal entities when communicating via EDI/EDM, EBB/EDM and/or FF/EDM. The corresponding common code name should also be used in EBB/EDM.~~

## **4. SUPPORTING DOCUMENTATION**

### **a. Description of Request:**

WGQ Annual Plan Item No. 7 - Determine if location common codes as formulated are needed

### **b. Description of Recommendation:**

#### **Executive Committee**

See the Executive Committee final minutes and transcript for the supporting documentation, discussion, and voting records for the following date:

10/28/2011

#### **Business Practices Subcommittee**

See the Business Practices Subcommittee (BPS) meeting minutes and attachments for the supporting documentation, discussion, and voting records for the following dates:

11/11/2010

12/02/2010

01/27/2011



**RECOMMENDATION TO NAESB WGQ EXECUTIVE COMMITTEE**

**Requester: WGQ Business Practice Subcommittee**  
**Request No.: WGQ 2011 Annual Plan Item No. 7**

**Executive Committee**

See the Executive Committee final minutes and transcript for the supporting documentation, discussion, and voting records for the following date:

02/03/11

**Business Practices Subcommittee**

See the Business Practices Subcommittee (BPS) meeting minutes and attachments for the supporting documentation, discussion, and voting records for the following dates:

02/22/2011

03/11/2011

03/31/2011

04/12/2011 The Business Practices Subcommittee sent out a proposal for informal comment, comments due on 4/26/2011 for discussion at the 05/05/2011 Executive Committee meeting.

**Executive Committee**

See the Executive Committee final minutes and transcript for the supporting documentation, discussion, and voting records for the following date:

05/05/2011

**Business Practices Subcommittee**

See the Business Practices Subcommittee (BPS) meeting minutes and attachments for the supporting documentation, discussion, and voting records for the following dates:

07/07/2011

07/28/2011

08/04/2011

08/11/2011

**Executive Committee**

See the Executive Committee final minutes and transcript for the supporting documentation, discussion, and voting records for the following date:

08/18/2011

**Business Practices Subcommittee**

See the Business Practices Subcommittee (BPS) meeting minutes and attachments for the supporting documentation, discussion, and voting records for the following dates:

09/01/2011

09/08/2011

**Balanced Vote: 09/08/2011      3 In Favor      0 Opposed**

| Segment   | Votes Cast |    |            |       | Balanced Vote |    |       |
|-----------|------------|----|------------|-------|---------------|----|-------|
|           | Yes        | No | Abstention | Total | Yes           | No | Total |
| End Users | 0          | 0  | 0          | 0     | 0             | 0  | 0     |
| LDCs      | 0          | 0  | 0          | 0     | 0             | 0  | 0     |
| Pipeline  | 12         | 0  | 0          | 12    | 2             | 0  | 2     |
| Producer  | 0          | 0  | 0          | 0     | 0             | 0  | 0     |
| Services  | 1          | 0  | 1          | 1     | 1             | 0  | 1     |



**RECOMMENDATION TO NAESB WGQ EXECUTIVE COMMITTEE**

**Requester: WGQ Business Practice Subcommittee  
 Request No.: WGQ 2011 Annual Plan Item No. 7**

|       |    |   |   |    |   |   |   |
|-------|----|---|---|----|---|---|---|
| Total | 13 | 0 | 1 | 13 | 3 | 0 | 3 |
|-------|----|---|---|----|---|---|---|

**c. Business Purpose:**

**d. Commentary/Rationale of Subcommittee(s)/Task Force(s):**

In addition to the passing of the standards by the Business Practices Subcommittee (BPS) on 9/08/2011, BPS passed an instruction to send a proposed Location Download Data Dictionary as a guideline for the Information Requirements Subcommittee to use in developing the data dictionary for NAESB WGQ Standard 0.4.z1.



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October 21, 2011

**TO:** Rae McQuade, NAESB President  
**FROM:** Jonathan Booe, NAESB Deputy Director  
**RE:** Requested Status Report of Recent Dodd Frank Activity

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Since my last update, the Commodity Futures Trading Commission (CFTC) Data Standardization Subcommittee met on September 30<sup>th</sup> to review the progress of the four work groups that were created during the August 5, 2011. Each work group provided a brief summary of their work to date and the white papers they have developed to address their assignments. The four areas being addressed through the work groups are (1) the standardization of product and entity identification, (2) the standardization of machine-readable legal documents for derivatives contracts, (3) the standardization of semantic representations of financial instruments, and (4) the standardization of data storage and retrieval systems. As I noted in the last update, I have been following, at the recommendation of the FERC representative Steve Reich, the efforts of Work Group 1 dedicated to the development of a white paper concerning the standardization of product and entity identification.

To date, the Work Group has held seven conference calls and two face to face meetings and has continued to focus interest on an International Standards Organization (ISO) standard (ISO 17442) as the standard to be used for the identification of legal entity's engaged in financial transactions, as well as, an International Swaps and Derivatives Association (ISDA) effort to develop a Unique Product Identifier (UPI) taxonomy for OTC derivatives. The group has a draft work paper together endorsing the standards that will include their recommendations for implementing the use of the standards. It is still in progress but I believe it will be near finalization prior to the next entire Subcommittee meeting, which will be held on November 4, 2011. If you would like additional information on the activities of Work Group 1 or information on how to participate in the November 4, 2011 meeting, please don't hesitate to contact me.

### My Supplemental Notes:

ISO 17442 – The ISO standard is just a data standard format for the information that is to be recorded about legal entities – i.e. registered name, address, jurisdiction of registration, parent legal entity, etc... an defines things like character length. What is unique about what is being proposed by the group is that they want to set up structure for managing the LEI information and publishing a data base that will be maintained by a registration authority and information manager. I understand it to be similar to the webRegistry and the process we used in selecting OATI as the manager of the webRegistry.

ISDA – Has an effort underway to develop a specification that creates a taxonomy or classification system for all OTC products. It proposes a consistent approach across all asset classes that covers all OTC products that are expressible in FpML (financial products markup language – the business information exchange standard (based on xml) for electronic dealing and processing of financial derivatives instruments). ISDA is setting up work groups now to develop the specification. From what I understand is that it is simplifying and standardizing the information that is currently shared in through the FpML specification.



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**TO:** NAESB Wholesale Electric Quadrant Executive Committee Task Force for FERC Order No. 1000 Attendees and Task Force Members: Kathy York, Pat McGovern, Sherri Monteith, Narinder Saini, Ed Skiba, Dave Taylor, Lou Ann Westerfield, James Manning, Ed Davis, Jonathan Booe, Rae McQuade

**FROM:** Rae McQuade

**RE:** NAESB Review of FERC Order No. 1000

**DATE:** October 3, 2011

Dear Task Force –

This document will serve as the notes for the meeting, the recommendation to the WEQ EC for inclusion of provisional items to the annual planning process, and the analysis of the order as it may impact NAESB.

First of all, thank you so much for participating in the review for FERC Order No. 1000 and possible implications to NAESB standards. Attached please find a matrix that excerpts the Commission determinations from FERC Order No. 1000 for which comments were made in today's meeting. A link to the full order is also provided for context<sup>1</sup>. The matrix of all Commission determinations from FERC Order No. 1000 can be found at [http://www.naesb.org/pdf4/ferc\\_order1000\\_100311a1.doc](http://www.naesb.org/pdf4/ferc_order1000_100311a1.doc).

The meeting began at 9:00 am Central in Houston at the NAESB offices. The administrative items for the task force were addressed – antitrust guidance and adoption of the agenda. Before we began the review, we identified three possible categories of NAESB efforts that could be related to FERC Order No. 1000 – (1) OASIS standards, (2) complementary business practices in support of NERC reliability standards development, and (3) gas-electric coordination. When the review of the order concluded, we determined that paragraph nos. 58, 82, 146, 157, 159, 161, 203, 204, 209, 225, 293, 369, 396, 398, 402 and 458 could contribute to a suggested provisional annual plan item in support of the order. A natural gas-electric coordination item will also be suggested to the WEQ EC for inclusion as a provisional annual plan item in support of the order.

The group agreed that the order was written to provide flexibility to the industry in the means by which the industry determined compliance. The provisional items are provided to the WEQ EC for discussion, should the EC come to a decision that fully voluntary standards that provide a framework within which meet the requirements of the order would prove helpful.

The language for the provisional annual plan items are:

1. Consider the development of gas-electric coordination standards in support of FERC Order No. 1000, recognizing the transmission planning required for facilities needed for the integration of variable and renewable generation that may be reliant on gas-fired generation and gas pipeline transmission.
2. Support FERC Order No. 1000:
  - Paragraph 58 – a review of the OASIS standards developed for service across multiple transmission systems, specifically the queuing process, to determine if changes are needed.
  - Paragraph 82 – consider if the development of an:
    - optional posting standard for metrics to address the problems and difficulties of planning transmission facilities meeting state resource requirements that must also be integrated with existing transmission planning processes based on metrics or tariff provisions focused on reliability or, in some cases, production cost savings
 would be beneficial and if so, develop the optional posting standard.
  - Paragraphs 146, 157, 159, 161, 203 – consider the development of an optional framework or checklist to support the 4 requirements of interregional transmission coordination as identified in Attachment K.
  - Paragraph 204 -- consider the development of an optional checklist of procedural items to support identifying the needs of wholesale customers would be helpful – through meeting the criteria outlined in Attachment K of the pro forma OATT.

<sup>1</sup> FERC Order No. 1000 is available at <http://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=12712383>



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- Paragraph 209 -- consider the development of an optional posting standard that would identify the evaluation criteria applied to potential solutions to transmission needs in the transmission planning processes. This effort could be similar to the work NAESB undertook for ATC postings.
- Paragraphs 225 and 293 -- consider the development of definitions for incumbent and non-incumbent transmission developer.
- Paragraph 293 -- consider the development of an optional project informational form to be submitted by prospective project sponsors which will be used for evaluation in the regional transmission planning process.
- Paragraph 369 -- consider the development of an optional mechanism for information sharing among the ISO/RTO and non-RTO regions.
- Paragraphs 396 and 398 -- consider the development of an optional mechanism for the sharing for information regarding the respective needs of each region – including the ability for each region to identify its needs and electronically dialog with neighboring transmission planning regions.
- Paragraph 402 -- consider the development of an optional framework for reaching out to state agencies for participation.
- Paragraph 458 -- consider the development of an optional informational check list and mechanism for distribution for the interregional transmission coordination procedures.

The meeting concluded at 3:17 pm Central.



| FERC Order No. 1000 <sup>2</sup> - Commission determination where comments, or proposed action were provided by the task force |  |
|--|--|
| Cite   | Commission Determination   |
| 58   | <p>We also disagree with commenters who assert that the Commission is relying on unsubstantiated allegations of discriminatory conduct or that the current Order No. 890 processes have not been in place long enough to justify the reforms proposed herein. The courts have made clear that the Commission need not make specific factual findings of discrimination to promulgate a generic rule to ensure just and reasonable rates or eliminate undue discrimination.<sup>52</sup> In <i>Associated Gas Distributors</i>, the court explained that the promulgation of generic rate criteria involves the determination of policy goals and the selection of the means to achieve them and that courts do not insist on empirical data for every proposition upon which the selection depends: “[a]gencies do not need to conduct experiments in order to rely on the prediction that an unsupported stone will fall.”<sup>53</sup> As discussed in this Final Rule, the Commission has received many comments arguing that commenters have experienced unjust and unreasonable, or unduly discriminatory or preferential practices in the transmission planning aspects of the transmission service provided by public utility transmission providers and that the lack of guidance from the Commission has delayed, as well as hindered, transmission projects. We have an obligation under section 206 to remedy these unjust and unreasonable, or unduly discriminatory or preferential rates, terms, and conditions and practices affecting rates.</p> <p><sup>52</sup> <i>TAPS v. FERC</i>, 225 F.3d 667 at 688; <i>National Fuel</i>, 468 F.3d 831.<br/> <sup>53</sup> 824 F.2d 981 at 1008.</p> |
| 82   | <p>Based on our review of the record and comments in this proceeding, we also require each public utility transmission provider to amend its OATT to explicitly provide for consideration of transmission needs driven by Public Policy Requirements in both local and regional transmission planning processes. As the Commission noted in the Proposed Rule, existing transmission planning processes generally were not designed to account for, and do not explicitly consider, transmission needs driven by Public Policy Requirements. While transmission planning processes in some regions have evolved to reflect compliance with Public Policy Requirements, our review of the comments indicates that some transmission planning processes do not consider transmission needs driven by Public Policy Requirements.<sup>72</sup> As a result, some regions are struggling with how to adequately address transmission expansion necessary to, for example, comply with renewable portfolio standards. These difficulties are compounded by the fact that planning transmission facilities necessary to meet state resource requirements must be integrated with existing transmission planning processes that are based on metrics or tariff provisions focused on reliability or, in some cases, production cost savings.</p> <p><sup>72</sup> For example, PJM acknowledges in its comments that under its existing transmission planning process, it cannot build transmission to anticipate the development of future generation, including renewable energy resources that are not associated with specific generator interconnection requests.</p>  |

**Notes**

Paragraph 58 could lead to a provisional annual plan item supporting a review of the OASIS standards developed for service across multiple transmission systems, specifically the queuing process, to determine if changes are needed.

Paragraph 82 could lead to a provisional annual plan item in support of a fully voluntary posting standard for metrics to address the problems and difficulties of planning transmission facilities meeting state resource requirements that must also be integrated with existing transmission planning processes based on metrics or tariff provisions focused on reliability or, in some cases, production cost savings.

<sup>2</sup> Federal Energy Regulatory Commission (FERC) [Final Rule](#): Transmission Planning and Cost Allocation by Transmission Owning and Operating Public Utilities [Docket No. RM10-23-000, Order No. 1000], July 21, 2011



# North American Energy Standards Board

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| FERC Order No. 1000 <sup>2</sup> - Commission determination where comments, or proposed action were provided by the task force |  |
|--|--|
| Cite   | Commission Determination   |
| 146  | <p>This Final Rule requires that each public utility transmission provider participate in a regional transmission planning process that produces a regional transmission plan and that complies with the transmission planning principles of Order No. 890 identified below. We determine that such transmission planning will expand opportunities for more efficient and cost-effective transmission solutions for public utility transmission providers and stakeholders. This will, in turn, help ensure that the rates, terms and conditions of Commission-jurisdictional services are just and reasonable and not unduly discriminatory or preferential.</p>   |
| 157  | <p>We agree with commenters that public utility transmission providers should have flexibility in determining the most appropriate manner to enhance existing regional transmission planning processes to comply with this Final Rule. As a result, and consistent with our approach in Order No. 890, we will not prescribe the exact manner in which public utility transmission providers must fulfill the requirements of complying with the regional transmission planning principles. We allow public utility transmission providers developing the regional transmission planning processes to craft, in consultation with stakeholders, requirements that work for their transmission planning region. Consistent with this approach, we will not impose additional rules that would detail consistent planning cycles, impose stakeholder procedures, establish timelines for evaluating regional transmission projects in the regional transmission planning process (including establishing a minimum long-term planning horizons), add any additional requirements to the Order No. 890 dispute resolution transmission planning principle, or establish other planning criteria beyond those in this Final Rule, as requested by some commenters. These are matters best suited to resolution by the public utility transmission providers and stakeholders in the transmission planning region. We also reject Anbaric and PowerBridge's suggestion that procedures be developed to treat transmission project information as confidential, outside of the Commission's Critical Energy Infrastructure Information (CEII) requirements and regulations, as this runs counter to the requirement that regional transmission planning processes be open and transparent.</p> |

### Notes

Paragraph 146 could lead to a provisional annual plan item in support of a fully voluntary framework or checklist to support the 4 requirements of interregional transmission coordination as identified in Attachment K of the pro forma OATT.  
 We have reviewed Attachment K of FERC Order No. 1000 against Attachment K of Order No. 890-B to determine if any additions would require work by NAESB. After review, we determined that no changes we needed, other than the provisional item noted above.

Please see the comments provided for paragraph 146.

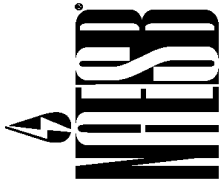


| <b>FERC Order No. 1000<sup>7</sup> - Commission determination where comments, or proposed action were provided by the task force</b> |  |
|--|--|
| Cite   | Commission Determination   |
| 159  | <p>We also decline to impose obligations to build or mandatory processes to obtain commitments to construct transmission facilities in the regional transmission plan, as requested by some commenters. The package of transmission planning and cost allocation reforms adopted in this Final Rule is designed to increase the likelihood that transmission facilities in regional transmission plans will move from the planning stage to construction. In addition, public utility transmission providers already are required to make available information regarding the status of transmission upgrades identified in transmission plans, including posting appropriate status information on its website, consistent with the Commission's CEII requirements and regulations.<sup>154</sup> To the extent an entity has undertaken a commitment to build a transmission facility in a regional transmission plan, that information should be included in such postings.<sup>155</sup> We determine that this obligation, together with the reforms we adopt in this Final Rule, are adequate without placing further obligations on public utility transmission providers.</p> <p><sup>154</sup> See Order No. 890, FERC Stats. &amp; Regs. ¶ 31,241 at P 472.</p> <p><sup>155</sup> Nothing in this Final Rule limits public utility transmission providers from developing mechanisms to impose an obligation to build transmission facilities in a regional transmission plan, consistent with the requirements below regarding the treatment of nonincumbent transmission developers. Similarly, nothing in this Final Rule preempts or otherwise limits any such obligation that may exist under state or local laws or regulations.</p> |
| 161  | <p>The Commission also clarifies that the obligation to participate in a regional transmission planning process that produces a regional transmission plan that meets the seven transmission planning principles, is not intended to appropriate, supplant, or impede any local transmission planning processes that public utility transmission providers undertake. The objective of this Final Rule is to amend the requirements of Order No. 890 so that regional transmission planning processes not only continue to meet the transmission planning principles established in Order No. 890 but, additionally, produce a regional transmission plan.</p>   |

**Notes**

Similar to the notes provided for paragraph 146, a provisional item for the WEQ annual plan could be added for the development of an optional informational posting framework similar to the effort undertaken related to FERC Order No. 717.

Please see the comments provided for paragraph 146.



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| FERC Order No. 1000 <sup>7</sup> - Commission determination where comments, or proposed action were provided by the task force |  |
|--|--|
| Cite   | Commission Determination   |
| 203  | <p>The Commission requires public utility transmission providers to amend their OATs to describe procedures that provide for the consideration of transmission needs driven by Public Policy Requirements in the local and regional transmission planning processes.<sup>185</sup> As discussed in section II above, the reforms adopted below are intended to ensure that the local and regional transmission planning processes support the development of more efficient or cost-effective transmission facilities to meet the transmission needs driven by Public Policy Requirements, which will help ensure that the rates, terms and conditions of jurisdictional service are just and reasonable. Moreover, these reforms will remedy opportunities for undue discrimination by requiring public utility transmission providers to have in place processes that provide all stakeholders the opportunity to provide input into what they believe are transmission needs driven by Public Policy Requirements, rather than the public utility transmission provider planning only for its own needs or the needs of its native load customers. Our decision here to require transmission planning to include the consideration of transmission needs driven by Public Policy Requirements is supported by the numerous commenters who generally agree with the proposed reforms.<sup>186</sup></p> <p><sup>185</sup> To the extent public utility transmission providers within a region do not engage in local transmission planning, such as in some ISO/RTO regions, the requirements of this Final Rule with regard to Public Policy Requirements apply only to the regional transmission planning process.</p> <p><sup>186</sup> E.g., Allegheny Energy Companies; American Transmission; Anbaric and PowerBridge; Arizona Corporation Commission; Arizona Public Service Company; Atlantic Grid; AWEA; California Commissions; California ISO; Clean Energy Group; Connecticut &amp; Rhode Island Commissions; Consolidated Edison and Orange &amp; Rockland; DC Energy; Delaware PSC; Dominion; Duke; Duquesne Light Company; EarthJustice; Exelon; First Wind; Iberdrola Renewables; Integrys; ISO New England; ISO/RTO Council; Maine PUC; Massachusetts Departments; Massachusetts Municipal and New Hampshire Electric; MISO; MISO Transmission Owners; National Audubon Society; National Grid; New England States' Committee on Electricity; New Jersey Board; New Jersey Division of Rate Counsel; New York PSC; NextEra; Northeast Utilities; Northern Tier Transmission Group; Ohio Consumers' Counsel and West Virginia Consumer Advocate Division; Old Dominion; Pacific Gas &amp; Electric; Pattern Transmission; Pennsylvania PUC; PHI Companies; PJM; PUC of Nevada; San Diego Gas &amp; Electric; Southern California Edison; Sunflower and Mid-Kansas; Transmission Dependent Utility Systems; Transmission Access Policy Study Group; Transmission Agency of Northern California; Western Grid Group; and Wind Coalition.</p> |
| 204  | <p>Under the existing requirements of Order No. 890, there is no affirmative obligation placed on public utility transmission providers to consider in the transmission planning process the effect that Public Policy Requirements may have on local and regional transmission needs.<sup>187</sup> We agree with the concerns of many commenters that, without having in place procedures to consider transmission needs driven by Public Policy Requirements, the needs of wholesale customers may not be accurately identified.<sup>188</sup> While we understand that some public utility transmission providers already do have processes in place to determine whether transmission needs reflect Public Policy Requirements, others do not. We correct this deficiency through the requirements below, which are intended to enhance, rather than replace, existing transmission planning obligations under Order No. 890. Moreover, as with other reforms adopted in this Final Rule, these requirements are intended to be an additional set of minimum obligations for public utility transmission providers and are not intended to preclude additional transmission planning related activities.</p> <p><sup>187</sup> In response to Transmission Dependent Utility Systems, we note that nothing in the existing <i>pro forma</i> OATT affirmatively prohibits consideration of the effect of Public Policy Requirements on transmission needs.</p> <p><sup>188</sup> E.g., National Grid; NextEra; Atlantic Grid; Delaware PSC; Anbaric and PowerBridge; and Conservation Law Foundation.</p>  |

### Notes

Please see the comments provided for paragraph 146.

Paragraph 204 could lead to a provisional annual plan item to determine if an optional checklist of procedural items to support identifying the needs of wholesale customers would be helpful – through meeting the criteria outlined in Attachment K of the order.



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| FERC Order No. 1000 <sup>2</sup> - Commission determination where comments, or proposed action were provided by the task force |  |
|--|--|
| Cite   | Commission Determination   |
| 209  | <p>We decline to require that transmission needs driven by Public Policy Requirements be identified by a particular entity or subset of stakeholders. However, all stakeholders must have an opportunity to provide input and offer proposals regarding the transmission needs they believe should be so identified, as discussed above. In other words, while the procedures adopted by public utility transmission providers in response to this Final Rule must allow all stakeholders to bring forth any transmission needs they believe are driven by Public Policy Requirements, those procedures must also establish a just and reasonable and not unduly discriminatory process through which public utility transmission providers will identify, out of this larger set of needs, those needs for which transmission solutions will be evaluated. Some public utility transmission providers might conclude, in consultation with stakeholders, to develop procedures that rely on a committee of load-serving entities, a committee of state regulators, or a stakeholder group to identify those transmission needs for which potential solutions will be evaluated in the transmission planning processes.<sup>189</sup> Another example would be the case where a public utility transmission provider identifies such transmission needs itself on behalf of its customers, following consultation with stakeholders, including participating state regulators. However, to ensure that requests to include transmission needs are reviewed in a fair and non-discriminatory manner, we require public utility transmission providers to post on their websites an explanation of which transmission needs driven by Public Policy Requirements will be evaluated for potential solutions in the local or regional transmission planning process, as well as an explanation of why other suggested transmission needs will not be evaluated. We conclude that this posting requirement is necessary to provide the Commission and interested parties with information as to how the identification procedures are implemented by public utility transmission providers.</p> <p><sup>189</sup> As noted below, we strongly encourage states to participate actively in the identification of transmission needs driven by Public Policy Requirements. Public utility transmission providers, for example, could rely on committees of state regulators or, with appropriate approval from Congress, compacts between interested states to identify transmission needs driven by Public Policy Requirements for the public utility transmission providers to evaluate in the transmission planning process.</p> |
| 225  | <p>This part of the Final Rule addresses the removal from Commission-jurisdictional tariffs and agreements of provisions that grant a federal right of first refusal to construct transmission facilities selected in a regional transmission plan for purposes of cost allocation. To implement the elimination of such rights, we adopt below a framework that requires the development of qualification criteria and protocols to govern the submission and evaluation of proposals for transmission facilities to be evaluated in the regional transmission planning process. We further require that any nonincumbent developer of a transmission facility selected in the regional transmission plan have an opportunity comparable to that of an incumbent transmission developer to allocate the cost of such transmission facility through a regional cost allocation method or methods. For purposes of this Final Rule, “nonincumbent transmission developer” refers to two categories of transmission developer: (1) a transmission developer that does not have a retail distribution service territory or footprint; and (2) a public utility transmission provider that proposes a transmission project outside of its existing retail distribution service territory or footprint, where it is not the incumbent for purposes of that project. By contrast, and as we explained in the Proposed Rule, an “incumbent transmission developer/provider” is an entity that develops a transmission project within its own retail distribution service territory or footprint.<sup>199</sup></p> <p><sup>199</sup> See Proposed Rule, FERC Stats. &amp; Regs. ¶ 32,660 at n.23</p>  |

### Notes

Paragraph 209 could lead to a provisional item for the WEQ annual plan to develop an optional posting standard that would identify the evaluation criteria applied to potential solutions to transmission needs in the transmission planning processes. This effort could be similar to the work NAESB undertook for ATC postings.

Paragraph 225 could lead to a provisional item for the WEQ annual plan to consider the development of definitions for incumbent and non-incumbent transmission developer.



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| FERC Order No. 1000 <sup>2</sup> - Commission determination where comments, or proposed action were provided by the task force |   |
|--|---|
| Cite   | Commission Determination  |
| 293  | <p>In the Proposed Rule, the Commission sought comment on a framework to eliminate from a transmission provider's OATT or agreements subject to the Commission's jurisdiction provisions that establish a federal right of first refusal for an incumbent transmission provider with respect to transmission facilities that are included in a regional transmission plan. The Commission proposed to require each public utility transmission provider to revise its OATT to: (1) establish appropriate qualification criteria for determining an entity's eligibility to propose a project in the regional transmission planning process, whether that entity is an incumbent transmission owner or a nonincumbent transmission developer; (2) include a form by which a prospective project sponsor would provide information in sufficient detail to allow the proposed project to be evaluated in the regional transmission planning process, and provide a single, specified date by which proposals must be submitted; (3) describe a transparent and not unduly discriminatory or preferential process used by the region for evaluating whether to include a proposed transmission facility in a regional transmission plan; (4) remove, along with corresponding changes in any other Commission-jurisdictional agreement, provisions that establish a federal right of first refusal for an incumbent transmission provider and include a description of how the regional transmission planning process provides a right to construct a selected project to the project sponsor, including potential modifications to proposed projects; (5) provide the right to develop a project for a defined period of time if not initially included in a regional transmission plan; and, (6) provide a comparable opportunity for incumbent and nonincumbent transmission project developers to recover the cost of a transmission facility through a regional cost allocation method.</p> |
| 369  | <p>Specifically, we agree with commenters, such as AEP, that the transmission planning requirements of Order No. 890 are too narrowly focused geographically and fail to provide for adequate analysis of the benefits associated with interregional transmission facilities in neighboring transmission planning regions. Our decision also is influenced by those commenters that cite seams issues or difficulties they have encountered in coordinating the development of transmission facilities across the regions, including between RTOs and ISOs, as well as between an RTO or ISO and non-RTO or ISO region and among non-RTO regions. We are persuaded by those commenters who argue that additional interregional transmission coordination requirements would facilitate consideration of transmission needs driven by Public Policy Requirements by enabling the evaluation of interregional transmission facilities that may address those needs more efficiently or cost-effectively. We agree with Transmission Dependent Utility Systems' comments that interregional transmission coordination promotes cost-effective transmission development and facilitates transmission customer participation in interregional transmission coordination efforts.</p>   |
|  | <p>Notes</p> <p>Paragraph 293 could lead to a provisional item for the WEQ annual plan to develop an optional project informational form to be submitted by prospective project sponsors which will be used for evaluation in the regional transmission planning process.</p> <p>Paragraph 369 could lead to a provisional item for the WEQ annual plan to facilitate coordination among the ISO/RTO and non-RTO regions through an optional mechanism for information sharing.</p>   |



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| FERC Order No. 1000 <sup>2</sup> - Commission determination where comments, or proposed action were provided by the task force |   |
|--|---|
| Cite   | Commission Determination  |
| 396  | <p>The Commission requires each public utility transmission provider, through its regional transmission planning process, to establish further procedures with each of its neighboring transmission planning regions for the purpose of coordinating and sharing the results of respective regional transmission plans to identify possible interregional transmission facilities that could address transmission needs more efficiently or cost-effectively than separate regional transmission facilities. Through adoption of this requirement, the Commission intends that neighboring transmission planning regions will enhance their existing regional transmission planning processes to provide for: (1) the sharing of information regarding the respective needs of each region, and potential solutions to those needs; and (2) the identification and joint evaluation of interregional transmission facilities that may be more efficient or cost-effective solutions to those regional needs.<sup>338</sup> By requiring public utility transmission providers to undertake such interregional transmission coordination activities, the Commission and transmission customers will have greater certainty that the transmission facilities in each regional transmission plan are more efficient or cost-effective solutions to meeting transmission planning region's needs.</p> <p><sup>338</sup> The same language must be included in each public utility transmission provider's OATT that describes the processes that a particular pair of transmission planning regions will use to satisfy the interregional transmission coordination requirements of this Final Rule. The filing requirements concerning this same language are discussed in the compliance section below. See discussion <i>infra</i> section VI.A. of this Final Rule.</p> |
| 398  | <p>However, we clarify in response to East Texas Cooperatives that the interregional transmission coordination requirements adopted do require that public utility transmission providers do more than simply commit to share their regional transmission plans and other transmission planning information. To comply with the requirements in this Final Rule, each public utility transmission provider, through its regional transmission planning process, must develop and implement additional procedures that provide for the sharing of information regarding the respective needs of each neighboring transmission planning region, and potential solutions to those needs, as well as the identification and joint evaluation of interregional transmission alternatives to those regional needs by the neighboring transmission planning regions. On compliance, public utility transmission providers must describe the methods by which they will identify and evaluate interregional transmission facilities. While the Commission does not require any particular type of studies to be conducted, this Final Rule requires public utility transmission providers in neighboring transmission planning regions to jointly identify and evaluate whether interregional transmission facilities are more efficient or cost-effective than regional transmission facilities. Accordingly, the Commission requires that the compliance filing by public utility transmission providers in neighboring planning regions include a description of the type of transmission studies that will be conducted to evaluate conditions on their neighboring systems for the purpose of determining whether interregional transmission facilities are more efficient or cost-effective than regional facilities.</p>   |
| 402  | <p>With respect to commenters' assertion that this Final Rule should not infringe on state authority, we emphasize here that the interregional transmission coordination requirements are not intended to infringe on state authority. We acknowledge the vital role that state agencies play in transmission planning and their authority to site transmission facilities. We strongly encourage state agencies to be involved in the development and implementation of the interregional transmission coordination procedures necessary to satisfy the interregional transmission coordination requirements adopted herein.</p>   |
|  | <p><b>Notes</b></p> <p>Paragraph 396 could lead to a provisional WEQ annual plan item in support of an optional mechanism for the sharing of information regarding the respective needs of each region – including the ability for each region to identify its needs and electronically dialog with neighboring transmission planning regions.</p> <p>Please see the comments provided for paragraph 396.</p> <p>Paragraph 402 could lead to a provisional WEQ annual plan item in support of an optional framework for reaching out to state agencies for participation which could be used as a template in meeting the requirements of this Commission determination.</p>  |



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| FERC Order No. 1000 <sup>2</sup> - Commission determination where comments, or proposed action were provided by the task force |   |
|--|---|
| Cite   | Commission Determination  |
| 458  | <p>The Commission requires public utility transmission providers, either individually or through their transmission planning region, to maintain a website or e-mail list for the communication of information related to interregional transmission coordination procedures. The Commission clarifies that information related to interregional transmission coordination may be maintained on an existing public utility transmission provider's website or a regional transmission planning website. However, the information should be posted in such a way that stakeholders are able to distinguish between information related to interregional transmission coordination and information related to regional transmission planning.</p> |
|  | Notes   |
|  | <p>Paragraph 458 could lead to a provisional WEQ annual plan item in support of an optional informational check list and mechanism for distribution for the interregional transmission coordination procedures, which could be used as a template or framework in complying with this Commission determination. See also the comments provided for Paragraph 159.</p>   |



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**NORTH AMERICAN ENERGY STANDARDS BOARD**  
**Proposed 2012 Annual Plan for the Wholesale Gas Quadrant Executive Committee**  
**As provided by the WGQ Executive Committee on 10-27-11**

| Item Description  | Completion <sup>1</sup>                | Assignment <sup>2</sup> |
|---|--|-------------------------|
| <b>1. Reorganize Standards Manuals for Ease of Use<sup>3</sup></b>  |  |                         |
| a. Investigate how to make standards referencing, which may include reorganization, more user friendly for implementation. ( <a href="#">Reorganize Standards Request</a> )<br>Status: Underway   | 1 <sup>st</sup> Q, 2012                | IR/Technical            |
| b. Determine the scheme for applying the changes identified in the above item (1a), which could include the order in which to make the modifications to the standards manuals.<br>Status: Not Started   | 2 <sup>nd</sup> Q, 2012                | IR/Technical            |
| c. Make the modifications to the standards manuals as described in the output of the above item (1b).<br>Status: Not Started  | Date dependent on Annual Plan Item 1b. | IR/Technical            |
| <b>2. Sample Paper Review<sup>3</sup></b>   |  |                         |
| a. 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. <sup>4</sup><br>Status: Underway | 4 <sup>th</sup> Q, 2012                | IR/Technical            |
| <b>3. Development of EBB Code Values<sup>3</sup></b>  |  |                         |
| a. 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. <sup>5</sup><br>Status: Underway  | 4 <sup>th</sup> Q, 2012                | IR/Technical            |
| <b>4. Development of Error Code Standards<sup>3</sup></b>   |  |                         |
| a. 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: Underway  | 4 <sup>th</sup> Q, 2012                | IR/Technical            |
| <b>5. Electronic Delivery Mechanisms</b>  |  |                         |
| a. Review minimum technical characteristics in Appendices B, C, and D of the WGQ QEDM Manual, and make changes as appropriate. (Reference NAESB Standard No. 4.3.59)<br>Status: Not Started   | 2 <sup>nd</sup> Q, 2012                | EDM                     |
| <b>6. NAESB Base Contract Addendum for Federal Acquisition Regulations (FAR) and Government Contract Compliance (GCP) clauses</b>   |  |                         |
| Review requirements and develop an addendum to the NAESB Base Contract for FAR and GCP clauses. <sup>6</sup>  |  |                         |
| a. Model FAR and GCP Addendum   | 1 <sup>st</sup> Q, 2012                | Contracts               |



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**NORTH AMERICAN ENERGY STANDARDS BOARD**  
**Proposed 2012 Annual Plan for the Wholesale Gas Quadrant Executive Committee**  
**As provided by the WGQ Executive Committee on 10-27-11**

| Item Description  | Completion <sup>1</sup>  | Assignment <sup>2</sup>         |
|---|--|---------------------------------|
| Status: Not Started   |  | Subcommittee                    |
| <b>7. Natural Gas Liquids Master Agreement</b>  |  |                                 |
| a. Consider and determine if a NAESB Natural Gas Liquids Master Agreement, is needed and if so determine the grades of liquids to be included <sup>7</sup><br>Status: Not Started                             | 2 <sup>nd</sup> Q, 2012  | Contracts Subcommittee          |
| b. Develop the NGL Master Agreement according to the analysis completed in item above (7a).<br>Status: Not Started  | 4 <sup>th</sup> Q, 2012<br>(Date Dependent on Annual Plan Item 7a) | Contracts Subcommittee          |
| <b>8. Common Codes</b>  |  |                                 |
| a. Modify standards to remove location common code from NAESB WGQ standards.<br>Status: Underway  | Date dependent on Annual Plan Item 8a                              | IR/Technical                    |
| <b>9. Session Encryption</b>  |  |                                 |
| a. Investigate and determine if changes to standards are needed to support adequate session encryption (SSL/TLS issues <a href="#">US-Cert Vulnerability Note VU#864643</a> )<br>Status: Not Started          | 1 <sup>st</sup> Q, 2012  | EDM                             |
| b. Modify or develop standards as needed to apply the analysis of the above item (9a)<br>Status: Not Started  | 2 <sup>nd</sup> Q, 2012  | EDM                             |
| <b>10. Capacity Release Program</b>   |  |                                 |
| Review NAESB WGQ Standard No. 5.3.2 and modify as necessary<br>Status: Not Started  | 2 <sup>nd</sup> Q, 2012  | BPS                             |
| <b>11. Usage designation for data (NAESB WGQ Standard No. 1.2.2)</b>  |  |                                 |
| a. Investigate and determine if the designation of "sender's business conditional" usage for data and the use of defaults for mandatory usage would be appropriate on a prospective basis<br>Status: Underway | 1 <sup>st</sup> Q, 2012  | BPS                             |
| b. Modify NAESB standards as needed to apply the analysis of the above item (10a)<br>Status: Not Started  | Date dependent on Annual Plan Item 10a.                            | BPS                             |
| <b>Program of Standards Maintenance &amp; Fully Staffed Standards Work</b>  |  |                                 |
| Business Practice Requests  | Ongoing  | Assigned by the EC <sup>8</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           |



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|  |              |                                 |
|--|--------------|---------------------------------|
| 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> |

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### Provisional Activities

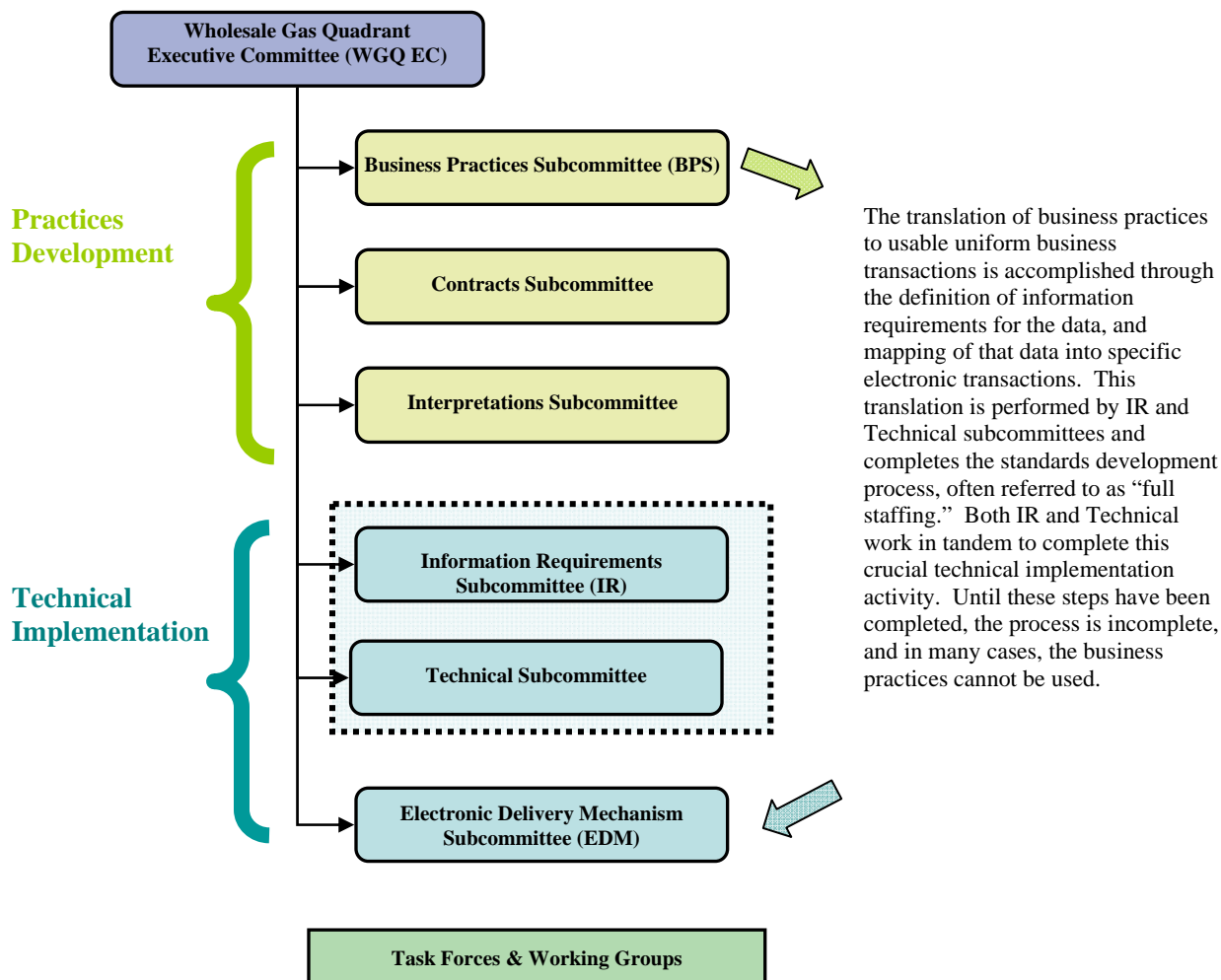
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1. Review and develop standards as needed related to [Docket No. RM11-1-000](#), Capacity Transfers on Intrastate Natural Gas Pipelines (Notice of Inquiry issued on October 21, 2010).
2. Review final rules published by the Commodity Futures Trading Commission (CFTC) to determine if new rules on various definitions will impact the NAESB Base Contract's General Terms and Conditions
3. Review and develop standards as needed and requested based on the National Petroleum Council (NPC) findings as communicated by the NAESB Board of Directors, government agencies or reliability organizations, as applicable. (9-15-11 NPC Report: [Transmittal Letter, Preface, and Executive Summary](#), Ch 1: [Resource and Supply](#), Ch 2: [Operations and Environment](#), Ch 3: [Demand](#), Ch 4: [Carbon and Other End-Use Emissions](#), Ch 5: [Macroeconomics](#), Ap A: [Request Letters, Description of the NPC, and NPC membership roster](#), Ap B: [Study Group Rosters](#), Ap C: [Additional Materials Available Electronically](#))



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### NAESB 2012 WGQ EC and Subcommittee Leadership:

Executive Committee: Jim Buccigross, Chair and Dale Davis, Vice-Chair  
 Business Practices Subcommittee: Kim Van Pelt, Lori Lynn Pennock, 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  
 Interpretations Subcommittee: Paul Love



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### End Notes, WGQ 2012 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</sup> As business issues are presented to the Information Requirements Subcommittee and Technical Subcommittee, those business issues will be given precedence over WGQ 2012 Annual Plan Item Nos. 1, 2, 3 and 4.

<sup>4</sup> Comments Provided By Spectra Energy in the 2010 Annual Plan process:  
[http://www.naesb.org/pdf4/wgq\\_aplan102010w3.doc](http://www.naesb.org/pdf4/wgq_aplan102010w3.doc).

<sup>5</sup> Comments Provided by Spectra Energy in the 2010 Annual Plan process:  
[http://www.naesb.org/pdf4/wgq\\_aplan102010w4.doc](http://www.naesb.org/pdf4/wgq_aplan102010w4.doc)

<sup>6</sup> The development will be based on the comments provided by [BG Group](#) and [ExxonMobil](#).

<sup>7</sup> The development will be based on the request and will include a review of the work products of [LEAP](#) and [ISDA](#).

<sup>8</sup> The EC assigns maintenance of existing standards on a request-by-request basis.



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**NORTH AMERICAN ENERGY STANDARDS BOARD  
2012 ANNUAL PLAN for the WHOLESALE ELECTRIC QUADRANT  
Proposed for Board Approval From the WEQ Executive Committee 10-25-11**

| 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 <sup>1</sup><br>Note: Consideration should be given to provisional item 4. Work is being coordinated with the NERC IDC Working Group.<br>Status: Started  | 4 <sup>th</sup> Q, 2011 | BPS                     |
| b) Perform consistency review of WEQ-008 Transmission Loading Relief Business Practice Standards and develop recommendation. <sup>2</sup>  | 2012                    | BPS                     |
| c) Disturbance Control Standard (DCS) (BAL-002) Coordination with NERC <a href="#">Project 2010-14.1 Phase 1 of Balancing Authority Reliability-based Controls: Reserves</a><br>Status: Monitor.   | 2013                    | BPS/TIMTF               |
| d) Coordinate with NERC on changes to the definition of Bulk Electric System NERC <a href="#">Project 2010-17 Definition of Bulk Electric System</a> .<br>Status: Started (Initial review performed to determine whether NAESB should adopt revised NERC definition or maintain existing definition. The decision was made to recommend adopting revised NERC definition and NERC is planning to complete its efforts by 1 <sup>st</sup> Quarter 2012, upon which NAESB's efforts are contingent.)   | 2 <sup>nd</sup> Q, 2012 | SRS                     |
| <b>2 Develop business practice standards in support of the FERC RM05-25-000 and RM05-17-000 (OATT Reform)<sup>3</sup></b>  |                         |                         |
| a) Develop version 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>4</sup>  |                         |                         |

<sup>1</sup> See AP Item 3.iv., Completion dates may be revisited contingent upon NERC-NAESB coordination of implementation related to parallel flow visualization

<sup>2</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>3</sup> FERC Order No. 890, issued February 16, 2007 can be accessed from the following link - [http://www.naesb.org/doc\\_view4.asp?doc=ferc021607.doc](http://www.naesb.org/doc_view4.asp?doc=ferc021607.doc)

<sup>4</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> |
|---|-------------------------|-------------------------|
| 1) Use of OASIS to Make Electronic Requests to Designate and Terminate Network Resource<br>Status: Underway   | 4 <sup>th</sup> Q, 2011 | OASIS                   |
| 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 | 4 <sup>th</sup> Q, 2011 | OASIS                   |
| 3) Masking of Designated Network Resource Operating Restrictions and Generating Cost Information<br>Status: Underway  | 4 <sup>th</sup> Q, 2011 | OASIS                   |
| 4) Procedural Requirements for Submitting Designations over new OASIS Functionality<br>Status: Underway   | 4 <sup>th</sup> Q, 2011 | OASIS                   |
| 5) Specify How Designated Network Service Informational Postings are Posted on OASIS<br>Status: Underway  | 4 <sup>th</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                                 | 4 <sup>th</sup> Q, 2011 | OASIS                   |
| 7) Procedural Requirements for Submitting Both Temporary and Indefinite Terminations of Network Resources<br>Status: Underway   | 4 <sup>th</sup> Q, 2011 | OASIS                   |
| 8) Procedures for Submitting and Processing Requests for Concomitant Evaluations of Transmission Requests and Temporary Terminations<br>Status: Underway                  | 4 <sup>th</sup> Q, 2011 | OASIS                   |
| ii) Group 4: Pre-Emption; Request No. <a href="#">R05019</a>  |                         |                         |
| 1) Pre-Emption<br>Status: Started   | 2 <sup>nd</sup> Q, 2012 | OASIS                   |
| 2) Request No. <a href="#">R05019</a><br>Status: Started  | 2 <sup>nd</sup> Q, 2012 | OASIS                   |



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| Item Description   | Completion <sup>1</sup> | Assignment <sup>2</sup> |
|--|-------------------------|-------------------------|
| iii) Group 6: Miscellaneous (Paragraph 1627 <sup>5</sup> of FERC Order No. 890)  |                         |                         |
| 1) Paragraphs 1627 of Order 890 – Posting of additional information on OASIS regarding firm transmission curtailments<br>Status: Not Started   | 2 <sup>nd</sup> Q, 2012 | OASIS                   |
| 2) Redispatch Cost Posting to allow for posting of third party offers of planning redispatch services.<br>Status: Not Started  | 2 <sup>nd</sup> Q, 2012 | OASIS                   |
| 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 | 4 <sup>th</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) and AP 2(a)(i))<br>Status: Underway.   | 4 <sup>th</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> )<br>Status: Not Started   | 2 <sup>nd</sup> Q, 2012 | JESS                    |

<sup>5</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>         |
|------|--|-------------------------|---------------------------------|
| iii) | Registry (TSIN): Transition the TSIN Registry from NERC to NAESB as the enhanced Electric Industry Registry (EIR).<br>Status: Underway.  | 1 <sup>st</sup> Q, 2012 | NAESB/NERC Administration, JESS |
| iv)  | 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                           |
| v)   | Review and correct WEQ-004 Coordinate Interchange Business Practice Standard as needed based on activities in NERC <a href="#">Project 2008-12</a> , <a href="#">Coordinate Interchange Standards Revisions</a> and supporting EOP-002-2 R4 and R6. <sup>6</sup><br>Status: Underway. Completion date dependent upon coordination activities with NERC, and Project 2008-12 is delayed by NERC due to other higher priority development. It is expected that NERC will begin its effort in 2 <sup>nd</sup> Q 2013. | 2014                    | JESS                            |
| b)   | Review e-Tag specifications and make modifications as needed for:  |                         |                                 |
|      | i) Supporting Network Integration Transmission Service standards   | TBD                     | JESS                            |
|      | ii) Consistency and clarifications   | TBD                     | JESS                            |
|      | iii) Regional Implementations supporting WECC efforts (probably of most impact to the appendices in the e-Tag specifications)  | TBD                     | JESS                            |

<sup>6</sup> See AP Item 1.a.iv, Completion dates may be revisited contingent upon NERC-NAESB coordination of implementation related to parallel flow visualization.



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| Item Description  | Completion <sup>1</sup>                   | Assignment <sup>2</sup> |
|---|---|-------------------------|
| 4. Develop and/or maintain standard communication protocols and cyber-security business practices as needed.  |   |                         |
| a) Develop PKI standards for OASIS.<br>Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)  | 2012                                      | PKI                     |
| b) 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 (a) and EIR | PKI                     |
| c) Develop modifications for WEQ-012 as needed to reflect current market conditions   |   |                         |
| i) Authorized Certification Authority Standard and Credentialing Practice ( <a href="#">R11014</a> )<br>Status: Underway  | TBD                                       | PKI                     |
| ii) Technology Review and Upgrade for NAESB Public Key Infrastructure Standard WEQ-012 ( <a href="#">R11015</a> ).<br>Status: Underway  | TBD                                       | PKI                     |
| iii) Review and develop standards as needed to support adequate session encryption (SSL/TLS issues: <a href="#">US-Cert Vulnerability Note VU#864643</a> )<br>Status: Not Started   | TBD                                       | PKI                     |
| d) Review WEQ standards for impact of XML vulnerability exploits and make modifications as needed to standards and functional specifications  | TBD                                       | PKI/JESS                |
| <b>5 Maintain existing body of Version 3.x standards</b>  |   |                         |
| a) Consistent with ¶51 of FERC Order No. 890-A, add AFC and TFC values to the “System_Attribute” data element of the NAESB Standard WEQ-003: OASIS S&CP Data Dictionaries. ( <a href="#">R08011</a> )<br>Status: Started                                    | 2 <sup>nd</sup> Q, 2012                   | OASIS                   |
| b) Correct WEQ 013-2.6.7.2. – Resale off OASIS ( <a href="#">R08027</a> )<br>Status: Not Started  | TBD                                       | OASIS                   |
| c) Add language to WEQ-001-4 Online Negotiation and Confirmation process to clarify Table 4-3 ( <a href="#">R09003</a> )<br>Status: Started   | 2 <sup>nd</sup> Q, 2012                   | OASIS                   |
| d) Create a new OASIS mechanism that allows for the merger of like reservations without the use of the resale mechanism ( <a href="#">R09015</a> )<br>Status: Not Started   | TBD                                       | OASIS                   |
| e) Develop standards to support crediting redirect requests with the capacity of the parent reservation ( <a href="#">BPA Comments</a> )<br>Status: Not Started   | TBD                                       | OASIS                   |



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| Item Description  | Completion <sup>1</sup> | Assignment <sup>2</sup>                     |
|---|-------------------------|---|
| <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 standards to support PAP 10 – Standards Energy Usage Information, Phase 2, Harmonization with CIM and SEP 2.0<br>Status: Underway, dependent on discussions with CIM and SEP 2.0   | 1 <sup>st</sup> Q, 2012 | Joint WEQ/REQ<br>PAP 10 SGS<br>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) Develop standards to support the Transmission Provider right to reassess the availability of conditional firm (See ¶ 72 <sup>7</sup> )<br>Status: Started  | 4 <sup>th</sup> Q, 2011 | OASIS                                       |

**NORTH AMERICAN ENERGY STANDARDS BOARD  
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**PROVISIONAL ITEMS**

- 1 Develop and or modify business practices related to support of NERC effort on the NERC Resources and Transmission Adequacy (NERC [Project 2009-05 Resource Adequacy Assessments](#)). NERC expects work on this project to start in third quarter 2014.
- 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>8</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>9</sup> (Phase 2) in concert with NERC, which may include alternative congestion management procedures<sup>3</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).

<sup>7</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>8</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>9</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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### PROVISIONAL ITEMS

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- 5 Develop complementary standards that align with NERC [Project 2008-01 Voltage and Reactive Planning and Control](#). A SAR was finalized in April 2011. NERC project is expected to begin in first quarter 2013.
- 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 greenhouse 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, Automatic Generation Control (AGC), and Inadvertent Accounting (BAL-004, BAL-005, and BAL-006) resulting from the NERC field test under NERC project (NERC [Project 2010-14.2 Phase 2 of Balancing Authority Reliability-based Controls: Time Error, AGC, and Inadvertent](#)). NERC expects this project to start in second quarter 2013. The NERC project may impact WEQ-006 Manual Time Error Correction and WEQ-007 Inadvertent Interchange Payback.
- 12 Develop complementary standards that align with NERC Project 2010-4 Demand Data. The NERC project may impact WEQ-015 Business Practices for Measurement and Verification of Wholesale Electricity Demand Response.
- 13 Coordinate with NERC on the functional model glossary revisions NERC [Project 2010-08 Functional Glossary Model Revisions](#). NERC expects this project to start in fourth quarter 2014. The NERC project may impact WEQ-000 Abbreviations, Acronyms, and Definition of Terms.
- 14 Coordinate with NERC on NERC Project 2012-05 ATC Revisions - Order 729. NERC expects this project to start in third quarter 2014. The NERC project may impact the WEQ-001 Open Access Same-Time Information Systems (OASIS) Standards, WEQ-002 OASIS Standards and Communication Protocol (S&CP), WEQ-003 Open Access Same-Time Information Systems (OASIS) Data Dictionary, and WEQ-013 OASIS Implementation Guide.
- 15 Coordinate with NERC on NERC Project 2012-08 Glossary Updates. NERC has not established a start date for this project. The NERC project may impact WEQ-000 Abbreviations, Acronyms, and Definition of Terms
- 16 Coordinate with NERC on NERC Project 2012-09 IRO Review. NERC has not established a start date for this project. The NERC project may impact WEQ-008 Transmission Loading Relief – Eastern Interconnection Standards.
- 17 Coordinate with NERC on NERC Project 2012-15 Flow Limited Paths. NERC has not established a start date for this project. The NERC project may impact the WEQ-001 Open Access Same-Time Information Systems (OASIS) Standards, WEQ-002 OASIS Standards and Communication Protocol (S&CP), WEQ-003 Open Access Same-Time Information Systems (OASIS) Data Dictionary, and WEQ-013 OASIS Implementation Guide.
- 18 Review and develop standards as needed and requested based on the National Petroleum Council (NPC) findings as communicated by the NAESB Board of Directors, government agencies or reliability organizations, as applicable. (9-15-11 NPC Report: [Transmittal Letter, Preface, and Executive Summary](#), Ch 1: [Resource and Supply](#), Ch 2: [Operations and Environment](#), Ch 3: [Demand](#), Ch 4: [Carbon and Other End-Use Emissions](#), Ch 5: [Macroeconomics](#), Ap A: [Request Letters, Description of the NPC, and NPC membership roster](#), Ap B: [Study Group Rosters](#), Ap C: [Additional Materials Available Electronically](#))
- 19 Develop standards as needed based on FERC Order No. 1000. ([NAESB Analysis of FERC Order No. 1000](#))



## North American Energy Standards Board

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**NORTH AMERICAN ENERGY STANDARDS BOARD  
2012 ANNUAL PLAN for the WHOLESale ELECTRIC QUADRANT  
Proposed for Board Approval From the WEQ Executive Committee 10-25-11**

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**PROVISIONAL ITEMS**

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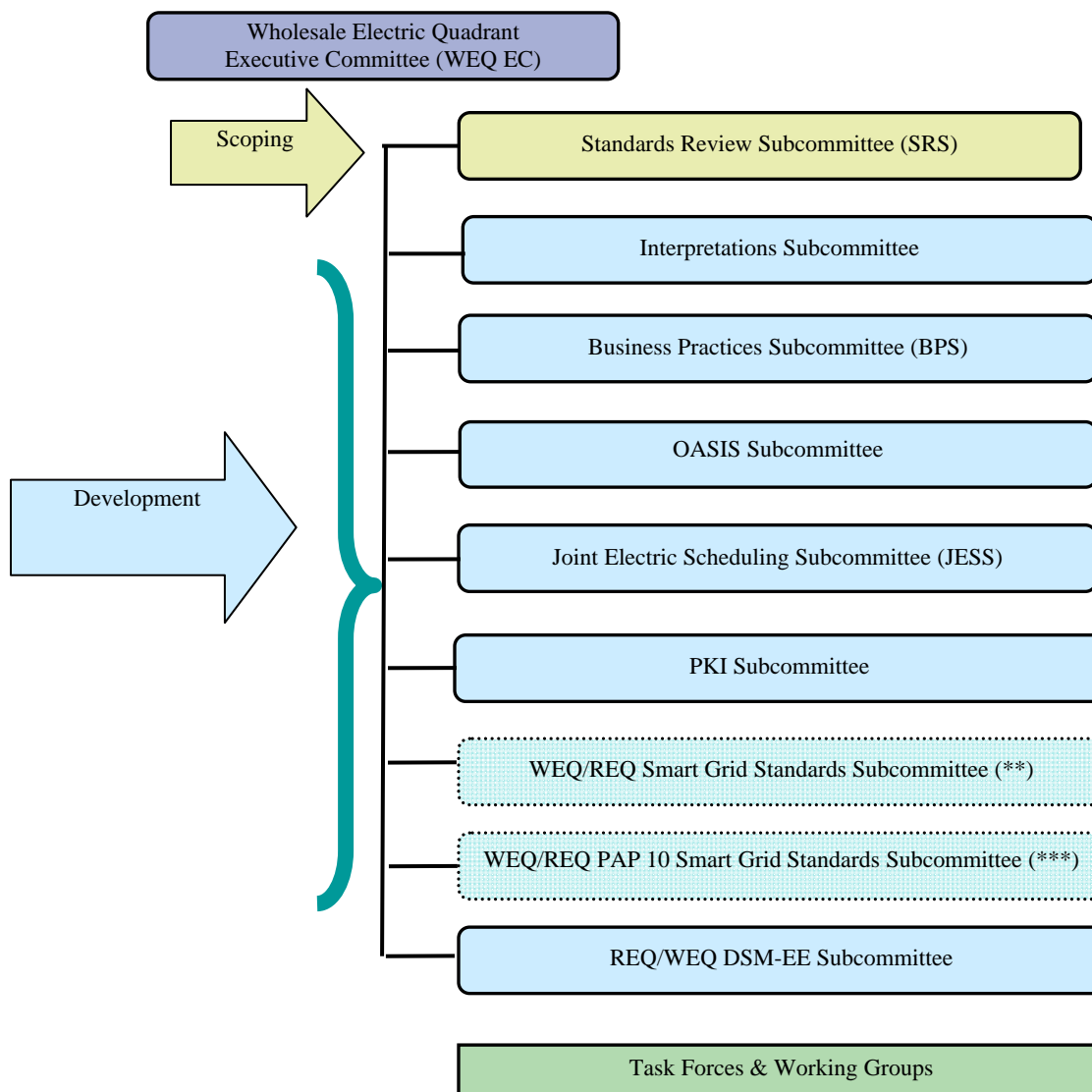
- 20      Develop standards as needed in support of Variable Energy Resources (VERs) final order (RM10-11-000). ([NAESB Comments 3-2-11](#), [FERC NOPR RM10-11-000](#))



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### WHOLESALE ELECTRIC QUADRANT EXECUTIVE COMMITTEE AND SUBCOMMITTEE STRUCTURE



#### NAESB WEQ EC and Active 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: Paul Sorenson, J.T. Wood, Alan Pritchard

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

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

Public Key Infrastructure (PKI) Subcommittee: Jim Buccigross



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### Inactive Subcommittees:

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

- (\*\*) The Smart Grid Standards Subcommittee is a joint group of the retail electric and wholesale electric quadrants with other standards development groups such as OASIS (Organization for the Advancement of Structured Information Standards, not Open Access Same Time Information Systems related to NAESB standards and FERC actions), CalConnect, FIX and UCAIug, among others. Direction may be given from NIST, DoE or FERC and the group reports jointly to the NAESB Board Smart Grid Strategic Steering Committee and the WEQ and 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 2012 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> 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).



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**NORTH AMERICAN ENERGY STANDARDS BOARD  
2012 ANNUAL PLAN for the RETAIL GAS and ELECTRIC QUADRANTS  
Presented for Approval to the Board of Directors on December 8, 2011**

| Item Number & Description <sup>1</sup>   | Completion <sup>2</sup> | Assignment <sup>34</sup>          |
|--|-------------------------|-----------------------------------|
| 1. Develop Technical Electronic Implementation Standards and Data Dictionaries   |                         |                                   |
| a.. Book 10: Retail Customer Enrollment, Drop and Account Information Change<br>Status: Not Started  | 2 <sup>nd</sup> Q, 2012 | TEIS                              |
| b. Book 11: Retail Customer Enrollment, Drop and Account Information Change in Markets Supporting the Registration Agent Model<br>Status: Completed  | 2011                    | TEIS                              |
| c. Review and update the technical implementation of Book 3 – Billing and Payment.   | 3 <sup>rd</sup> Q, 2012 | 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>Status: Not Started.   | 4 <sup>th</sup> Q, 2012 | 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><br>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, 2012 | REQ DSM-EE<br>Subcommittee        |
| c. Harmonize DSM-EE glossary with Retail Glossary<br>Status: Ongoing   | Ongoing                 | REQ/RGQ Glossary<br>Subcommittee  |
| 4. Review and develop model business practices to support renewable portfolio programs   |                         |                                   |
| a. Develop model business practice standards to support Renewable Portfolio Standards.<br>Note: This is a separate item and there is no comparable WEQ standard<br>Status: Not Started   | 4 <sup>th</sup> Q, 2012 | REQ DSM-EE<br>Subcommittee        |



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| Item Number & Description <sup>1</sup>   | Completion <sup>2</sup>                                    | Assignment <sup>34</sup>              |
|--|--|---------------------------------------|
| 5. 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   | 2 <sup>nd</sup> Q, 2012                                    | BPS                                   |
| 6. Additional Registration Agent Processes   |  |                                       |
| a. Develop Technical Electronic Implementation Standards and Data Dictionaries to support Model Business Practices of Book 14 – Service Requests, Disconnections and Reconnections in the Registration Agent Model<br>Status: Not Started  | 2013, date dependent on completion of items 9a – 9j        | IR/TEIS                               |
| 7. 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: Underway  | 1 <sup>st</sup> Q, 2012                                    | Joint WEQ/REQ PAP 10 SGS Subcommittee |
| 8. 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, this development is tied to the development for item 9(d). | 3 <sup>rd</sup> Q, 2012, date may be dependent on item 9d. | BPS                                   |
| 9. Update Existing Model Business Practices – Review and update all existing Model Business Practices, filling in any gaps that may exist and making the language consistent throughout all Books. <sup>6</sup>  |  |                                       |
| a. Book 1 – Market Participant Interactions<br>Status: Underway  | 1 <sup>st</sup> Q, 2012                                    | BPS                                   |
| b. Book 2 – Creditworthiness<br>Status: Underway   | 3 <sup>rd</sup> Q, 2012                                    | BPS                                   |
| c. Book 3 – Billing and Payments<br>Status: Not Started  | 4th Q, 2012  | BPS                                   |
| d. Book 8 – Customer Information<br>Status: Not Started  | 2013, may be dependent on item 8.                          | BPS                                   |
| e. Book 9 – Customer Billing and Payment Notification via Uniform Electronic Transactions<br>Status: Not Started   | 2013   | BPS                                   |
| f. Book 10 – Customer Enrollment, Drop, and Account Information Change<br>Status: Not Started  | 2013   | BPS                                   |



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| Item Number & Description <sup>1</sup>   | Completion <sup>2</sup> | Assignment <sup>34</sup>   |
|--|-------------------------|--|
| g. Book 11 - Customer Enrollment, Drop, and Account Information Change Using a Registration Agent<br>Status: Not Started               | 2013                    | BPS  |
| h. Book 13 – Measurement and Verification (M&V) of Demand Response Programs <sup>7</sup><br>Status: Not Started                        | 2013                    | BPS  |
| i. Book 14 – Service Request, Disconnection and Reconnection in the Registration Agent Model<br>Status: Not Started                    | 2014                    | BPS  |
| j. Book 15 – Specifications for Common Electricity Product and Pricing Definition <sup>8</sup><br>Status: Not Started                  | 2014                    | BPS  |
| k. Book 16 – Specifications for Common Schedule Communication Mechanism for Energy Transactions <sup>8</sup><br>Status: Not Started    | 2014                    | BPS  |
| l. Book 17 – Specifications for Retail Standard Demand Response Signals <sup>8</sup><br>Status: Not Started                            | 2014                    | BPS  |
| m. Book 18 – Retail Customer Energy Usage Information Communication <sup>8</sup><br>Status: Not Started                                | 2014                    | BPS  |
| n. Book 21 – Energy Services Provider Interface <sup>8</sup><br>Status: Not Started  | 2014                    | BPS  |
| o. Book 22 – Third Party Access to Retail Customer Information <sup>8</sup><br>Status: Not Started                                     | 2015                    | BPS  |
| p. Book 23 – Supplier Marketing Practices<br>Status: Not Started   | 2015                    | BPS  |
| q. Book 24 – Enrollment, Drop, Account Information Change in Demand Response Programs <sup>8</sup><br>Status: Not Started              | 2015                    | BPS  |
| 10. Create common interfaces and data structures necessary for enrolling DR sites into a DR program                                    |                         |  |
| a. Enrollment process model business practices development ( <a href="#">R10002</a> )<br>Status: Underway                              | 1 <sup>st</sup> Q, 2012 | REQ DSM-EE Subcommittee  |
| b. Develop a new standardized form to obtain the Retail Customer's Authorization for the release of their information to a third party | 2 <sup>nd</sup> Q, 2012 | REQ BPS, REQ DSM-EE Subcommittee, REQ Smart Grid PAP 10 Subcommittee Data Privacy Task Force |



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| Item Number & Description <sup>1</sup>   | Completion <sup>2</sup> | Assignment <sup>34</sup> |
|--|-------------------------|--------------------------|
| 11. Registration Agent Model Agreements  |                         |                          |
| a. Review and compare the Production Connectivity Worksheet and the Trading Partner Worksheet to see if there are common attributes and determine if any changes to the worksheets are needed.<br>Status: Not Started. Should changes be required, coordination with WGQ will be needed. | 3 <sup>rd</sup> Q, 2012 | BPS                      |
| b. Review the Continuing Service Agreement used in the Registration Agent Model to see if it should become a NAESB agreement or whether another NAESB agreement contains the required elements.<br>Status: Not Started   | 3 <sup>rd</sup> Q, 2012 | BPS                      |
| 12. Session Encryption   |                         |                          |
| a. Investigate and determine if changes to standards are needed to support adequate session encryption (SSL/TLS issues <a href="#">US-Cert Vulnerability Note VU#864643</a> )<br>Status: Not Started   | 1 <sup>st</sup> Q, 2012 | TEIS                     |
| b. Modify or develop standards as needed to apply the analysis of the above item (12a)<br>Status: Not Started  | 2 <sup>nd</sup> Q, 2012 | TEIS                     |
| 13. Review and modify standards as necessary to clarify the distinctions of inquiries and complaints, and develop processes for resolving inquiries and complaints   |                         |                          |
| a. Book 4 – Distribution Company – Supplier Disputes<br>Status: Not Started  | 2 <sup>nd</sup> Q, 2012 | BPS                      |
| b. Book 12 – Customer Inquiries<br>Status: Not Started   | 2 <sup>nd</sup> Q, 2012 | BPS                      |

**Program of Standards Maintenance & Fully Staffed Standards Work<sup>8</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:**

- Review security standards as may be deemed necessary, such as Public Key Infrastructure (PKI).
- Develop XML transactions to support customer choice programs.



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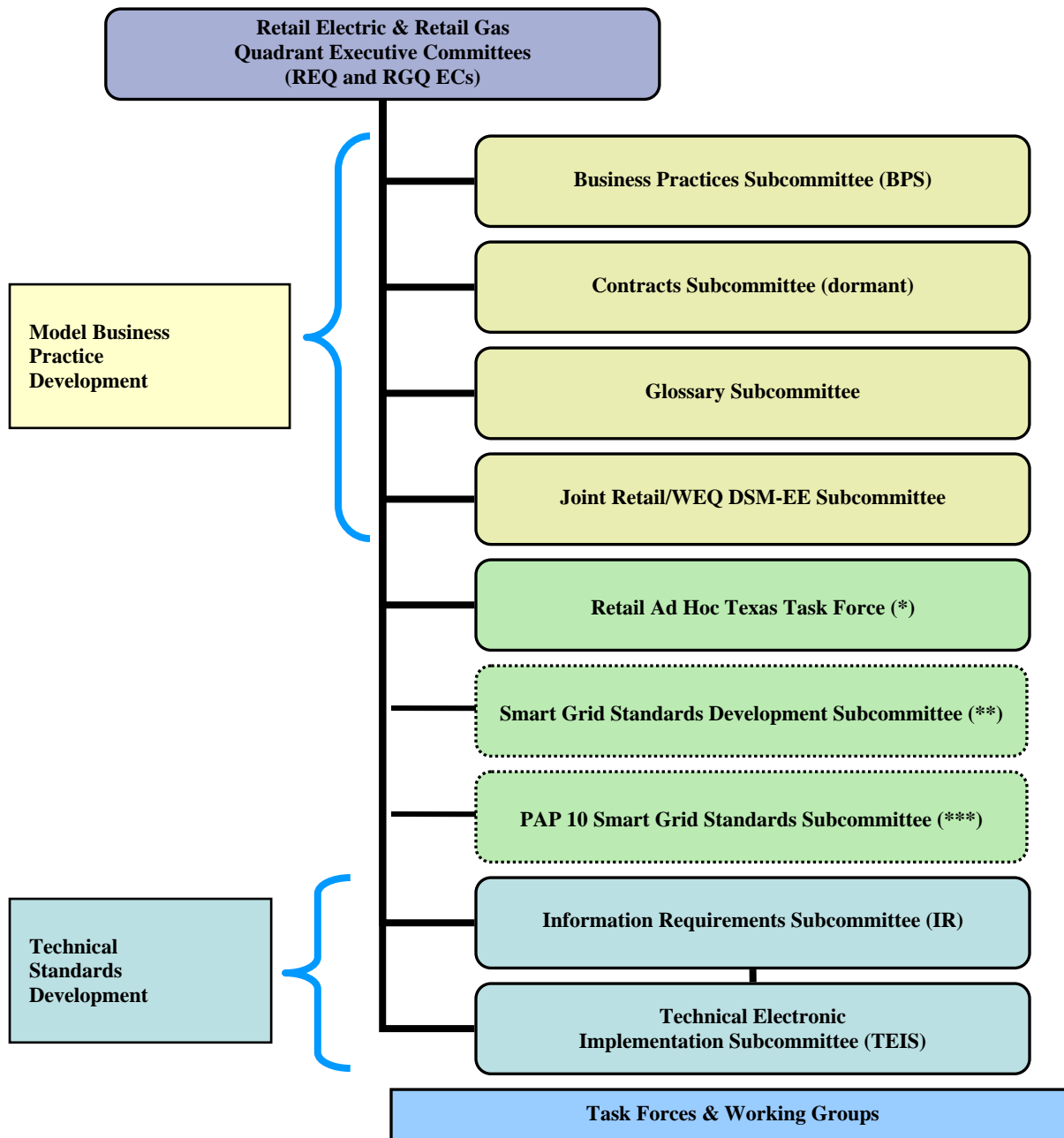
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| Item Number & Description <sup>1</sup>  | Completion <sup>2</sup> | Assignment <sup>3,4</sup> |
|---|-------------------------|---------------------------|
| <b>Retail Electric Quadrant Effort Only:</b>  |                         |                           |
| 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.   |                         |                           |



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### NAESB Retail Subcommittee Leadership:<sup>9</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: Judy Ray (REQ)  
 Glossary Subcommittee: Patrick Eynon (REQ)  
 DSM-EE Subcommittee: Ruth Kiselewich (Retail), Roy True (WEQ), and Paul Wattles (WEQ)  
 Retail Ad Hoc Texas Task Force: Debbie McKeever (REQ) and Susan Munson (REQ)

(\*) The Retail Ad Hoc Texas Task Force may draft MBPs, process flows, implementation guides and technical standards supportive of the Registration Agent. 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 2012 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> Note: BPS will not review Book 5 (Quadrant Specific Electronic Delivery Mechanism), Book7 (Internet Electronic Transport), or Book 20 (Smart Grid Standards Data Element Table)

<sup>7</sup> Note: This will be for language and format only, BPS will not edit for content.

<sup>8</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>9</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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October 17, 2011

**TO:** NAESB Board of Directors and Executive Committee  
**FROM:** Rae McQuade  
**RE:** Schedule of 2012 Meetings

Below is the schedule of 2012 meetings for the Board of Directors, Advisory Council and Executive Committee.

### 2012 Calendar of Board and Advisory Council Meetings

| Date         | Meeting  | Location  |
|--------------|--|---|
| February 4   | Advisory Council Meeting   | Washington D.C. – Renaissance Washington Hotel (in conjunction with NARUC Winter Meeting) |
| March 22     | Board of Directors   | Houston, TX – Hotel TBD   |
| June 21      | Board of Directors   | Houston, TX – Hotel TBD   |
| September 20 | Board of Directors, Meeting of the Members and Strategic Session | Houston, TX – Hotel TBD   |
| December 6   | Board of Directors   | Houston, TX – Hotel TBD   |

### 2012 Calendar of Executive Committee Meetings

| Date           | Meeting                                | Location  |
|----------------|--|---|
| February 21-23 | Executive Committee (WEQ, Retail, WGQ) | Host Salt River Project, Phoenix, AZ                |
| May 1-3        | Executive Committee (WEQ, Retail, WGQ) | Host Aces Power, Carmel, IN                         |
| August 21-23   | Executive Committee (WEQ, Retail, WGQ) | Host El Paso Western Pipeline, Colorado Springs, CO |
| October 23-25  | 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.