North American Energy Standards Board
1301 Fannin, Suite 2350, Houston, Texas 77002
Phone: (713) 356-0060, Fax: (713) 356-0067, E-mail: naesb@naesb.org
Home Page: www.naesb.org

NAESB BOARD OF DIRECTORS MEETING ASSEMBLED MEETING MATERIALS

DECEMBER 10, 2009

North American Energy Standards Board

1301 Fannin, Suite 2350, Houston, Texas 77002
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NAESB BOARD OF DIRECTORS MEETING ASSEMBLED MEETING MATERIALS
Marriott IAH Airport Hotel, Houston, Texas
December 10, 2009 -- 9 am to 1 pm C

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12	**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 the 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
2009 BOARD TERMS – Wholesale Gas Quadrant

PRODUCERS SEGMENT		**TERM END:**
Richard D. Smith	Regulatory & Compliance Manager, Noble Energy Inc.	12-31-2010
Bill Hebenstreit	Marketing Manager, Goodrich Petroleum Company, LLC	12-31-2009
Keith Sappenfield	Regional Director – US Regulatory Affairs, EnCana Oil & Gas (USA), Inc.	12-31-2009
Marty Patterson	Executive Vice President of Operations & COO, Foothills Energy Ventures, LLC	12-31-2010
Pete Frost	Director - Regulatory Affairs, ConocoPhillips Gas and Power Marketing	12-31-2009
PIPELINE SEGMENT		
Cathie Legge	Manager – Customer Service, Alliance Pipeline, LP	12-31-2010
Bill Grygar	Vice President, Panhandle Eastern Pipe Line	12-31-2010
Susanna B. Barry	Vice President – Commercial Operations, Tennessee Gas Pipeline Company	12-31-2010
Machelle Grim	Director – Regulation and FERC Compliance, Dominion Resources Services, Inc.	12-31-2009
Richard Kruse	Senior Vice President, Spectra Energy Transmission	12-31-2009
LOCAL DISTRIBUTION COMPANY (LDC) SEGMENT		
Craig Colombo	Energy Trader III, Dominion Resources	12-31-2010
Adrian Chapman	Vice President, Regulatory Affairs & Energy Acquisition, Washington Gas	12-31-2010
Carlos Thillet	Manager, Gas Supply & Transportation, PECO Energy Co.	12-31-2009
Mike Novak	Asst. General Manager, National Fuel Gas Distribution Corporation	12-31-2009
Lee Stewart	Senior Vice President, Gas Transmission, Southern California Gas Company	12-31-2009
END USERS SEGMENT		
Valerie Crockett	Senior Program Manager, Energy Markets & Policy, Tennessee Valley Authority	12-31-2010
Timothy W. Gerrish	Director of Origination-Energy Marketing and Trading, Florida Power & Light	12-31-2010
Tina Burnett	Natural Gas Resources Administrator, The Boeing Company	12-31-2010
Lori-Lynn C. Pennock	Senior Fuel Supply Analyst, Salt River Project	12-31-2009
Jim Templeton	Principal, Comprehensive Energy Services	12-31-2009
SERVICES SEGMENT		
Steve Abbey	Manager of Regulatory Affairs, Marketing Department, Anadarko Energy Services Company	12-31-2010
Rusty Braziel	Managing Director, Bentek Energy, LLC	12-31-2010
Jim Buccigross	Vice President Energy Industry Practice, 8760 Inc.	12-31-2009
V A C A N C Y		12-31-2009
Lori Leeder	Relationship Manager/Business Development – Asset Optimization, Vega Energy Partners, Ltd	12-31-2010

OFFICERS: Michael Desselle is CEO and Chairman of the Board of Directors. Rae McQuade as President serves as Secretary and COO. J. Cade Burks is the REQ Vice Chairman. Ralph Cleveland is the RGQ Vice Chairman. Valerie Crockett is the WGQ Vice Chairman. Jim Templeton is Chair Emeritus.

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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 BOARD TERMS – Retail Electric Quadrant

SERVICE PROVIDERS/SUPPLIERS SEGMENT		**TERM END:**
Robert K. Koger	President, North Carolina Advanced Energy Corporation	12-31-2009
Jim Minneman	Controller, PPL Solutions LLC	12-31-2009
J Cade Burks	Executive Vice President of E:SO *(Formerly EC Power)*	12-31-2010
Austin Morris	Managing Partner – Energy, SunGard Consulting Services, LLC	12-31-2010
UTILITIES SEGMENT		
David Koogler	Director – State Regulation, Dominion Virginia Power	12-31-2009
Dennis Derricks	Director Regulatory Policy and Analysis, Wisconsin Public Service Corporation	12-31-2009
Ruth Kiselewich	Director, Demand Side Management Programs, Baltimore Gas & Electric Company	12-31-2010
Debbie McKeever	Market Advocate, Oncor	12-31-2010
END USERS/PUBLIC AGENCIES SEGMENT		
Sonny Popowsky	Consumer Advocate, Pennsylvania Office of Consumer Advocate	12-31-2009
V A C A N C Y		12-31-2009
James P. Cargas	Senior Assistant City Attorney, City of Houston	12-31-2010
V A C A N C Y		12-31-2010

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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 BOARD TERMS – Wholesale Electric Quadrant

TRANSMISSION SEGMENT		TERM END:	SUBSEGMENT:
Dan Klempel	Director Transmission Regulatory Compliance, Basin Electric Power Cooperative	12-31-2009	Muni/Coop
Chuck Feagans	Senior Manager, Reliability Policy, Tennessee Valley Authority	12-31-2010	Fed/State/Prov.
John E. Lucas	Director - Transmission Policy and Services, Southern Company Transmission	12-31-2010	IOU
V A C A N C Y		12-31-2009	at large
Jill Horswell	Director Transmission, Southern California Edison	12-31-2010	at large
Edward J. Davis	Policy Consultant, Entergy Services, Inc.	12-31-2009	at large
Michelle Mizumori	Director of Market – Operations Interface, Western Electricity Coordinating Council (WECC)	12-31-2009	At-Large
GENERATION SEGMENT			
Curtis Winterfeld	Vice President of Power Marketing, Deseret Generation & Transmission Cooperative	12-31-2009	Muni/Coop
Belinda Thornton	General Manager - Energy Origination, Tennessee Valley Authority	12-31-2010	Fed/State/Prov.
Lou Oberski	Director – Electric Market Policy, Dominion Resources Services, Inc.	12-31-2010	IOU
Charles W. Severance	Manager – Supply & Wholesale Services, Wisconsin Public Service Corporation	12-31-2009	IOU
V A C A N C Y		12-31-2009	at large
Gloria Godson	Vice President Energy Policy, Conectiv Energy Supply, Inc.	12-31-2010	Merchant
Shah Hossain	Senior Regulatory Specialist, Westar Energy, Inc.	12-31-2009	at large
MARKETERS/BROKERS SEGMENT			
Roy True	Manager of Regulatory and Markets Development, ACES Power Marketing	12-31-2010	Muni/Coop
Jeff Ackerman	Manager, Colorado River Storage Project Energy Management and Marketing Office, Western Area Power Administration	12-31-2009	Fed/State/Prov.
Gavin Cunningham	Manager – FirstEnergy Solutions Corp.	12-31-2010	at large
Jack Cashin	Senior Manager of Policy, Electric Power Supply Association (EPSA)	12-31-2009	at large
Sam Forrest	Vice President, Energy Marketing and Trading, Florida Power & Light	12-31-2010	IOU
R. Scott Brown	Vice President and Director, Exelon Generation Power Team	12-31-2009	IOU
Rick Smead	Director, Navigant Consulting, Inc.	12-31-2009	At-Large

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DISTRIBUTION/LOAD SERVING ENTITIES (LSE) SEGMENT		TERM END:	SUBSEGMENT:
Arthur G. Fusco	Vice President and General Counsel, Central Electric Power Cooperative Inc.	12-31-2010	Muni/Coop
Paul McCurley	Manager – Power Supply, National Rural Electric Cooperative Association	12-31-2009	Muni/Coop
V A C A N C Y		12-31-2010	at large
Frank Johnson	Senior Vice President Electric Transmission and Distribution, Consumers Energy	12-31-2009	IOU
V A C A N C Y		12-31-2009	at large
Joe Hartsoe	Managing Director – Federal Policy, American Electric Power Service Corp.	12-31-2010	at large
Bruce Ellsworth	New York State Reliability Council	12-31-2009	At-Large
END USERS SEGMENT			
Jesse D. Hurley	Chief Executive Officer, Shift Research, LLC	12-31-2009	at large
Aaron Breidenbaugh	Senior Manager - Regulatory Affairs and Public Policy - New York, EnerNOC, Inc.	12-31-2010	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	12-31-2010	Regulator
V A C A N C Y		12-31-2009	at large
Rick Lentz	Fellow with SunGard	12-31-2010	at large
V A C A N C Y		12-31-2009	at large
Michehl Gent	Open Access Technology International, Inc.	12-31-2009	At-Large
INDEPENDENT GRID OPERATORS/PLANNERS			
Michael Desselle	Vice President Process Integrity, Southwest Power Pool	12-31-2010	
Kent Saathoff	Vice President of System Operations, ERCOT	12-31-2010	
Kevin Kirby	Vice President Market Operations, ISO New England, Inc.	12-31-2010	
Rana Mukerji	Vice President Market Structures, New York Independent System Operator, Inc. (NYISO)	12-31-2010	
Andy Ott	Senior Vice President Marketing, PJM Interconnection, LLC	12-31-2009	
Bill Phillips	Vice President Standards Compliance & Strategy, Midwest ISO (MISO)	12-31-2009	
Don Tench	Director Planning & Assessments, Independent Electricity System Operator (IESO)	12-31-2009	

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

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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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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 BOARD TERMS – Retail Gas Quadrant

SERVICE PROVIDERS/SUPPLIERS SEGMENT		**TERM END:**
Leigh Spangler	President, Latitude Technologies Inc.	12-31-2010
V A C A N C Y		12-31-2010
Dave Darnell	President & CEO, Systrends USA	12-31-2009
Greg Lander	President, Capacity Center	12-31-2009
DISTRIBUTORS SEGMENT		
Alonzo Weaver	Vice President of Engineering and Operations, Memphis Light, Gas & Water Division (APGA)	12-31-2009
Ralph Cleveland	Senior Vice President – Engineering and Operations, AGL Resources, Inc.	12-31-2009
V A C A N C Y		12-31-2010
V A C A N C Y		12-31-2010
END USERS/PUBLIC AGENCIES SEGMENT		
V A C A N C Y		12-31-2010
V A C A N C Y		12-31-2010
V A C A N C Y		12-31-2009
V A C A N C Y		12-31-2009

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Via email and posting
November 24, 2009

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

FROM: Rae McQuade, NAESB President and COO

RE: Announcement & Agenda: NAESB Board Meeting and related NAESB Meetings – December 9-10, 2009

Dear Board members, EC members, EC alternates, NAESB Members and invited guests,

As noted in other communications, we are pleased to announce the upcoming Board meeting which includes the meeting of the members and strategic session on December 10 in Houston, Texas at the Marriott IAH Airport Hotel. I hope you are able to travel to Houston for our upcoming Board meeting, related committee meetings and our Board dinner.

In addition to the normal activities of reviewing progress made against our 2009 plans, discuss membership and financial reports, review publication plans for upcoming versions, and updates for a number of key development efforts including FERC Order No. 890, DSM-EE and Smart Grid, we will have Annabelle Lee of NIST speak on cybersecurity and the Smart Grid. We will also vote on the 2010 budget and the 2010 annual plans.

I hope you are able to travel to Houston for our upcoming Board meeting, related committee meetings and our Board dinner. We have wonderful speakers slated for both the Board meeting itself and the dinner the night before. You will not want to miss the festive decorations at the dinner at the Petroleum Club, but more importantly, you will not want to miss our speaker, Joseph Kelliher, our former FERC Chairman. You can find Mr. Kelliher's biography at the following link: http://www.naesb.org/misc/kelliher_biography_2009.doc.

The specifics of the meetings are:

Events:	Board of Directors Meeting, Meeting of the Members, Strategic Session and related NAESB meetings	
Where:	Marriott IAH Airport, 18700 John F. Kennedy Blvd, Houston, TX 77032, phone (281) 443-2310 (excepting Board Reception and Dinner)	
When:	December 9	Wholesale Electric Quadrant Leadership Meeting from 1:00 pm to 3:00 pm C (lunch served at noon prior to the meeting start)
	December 9	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 Marriott IAH Airport Hotel)
	December 10	Resources Committee Meeting from 8:00 am to 9:00 am C
	December 10	Board Meeting from 9:00 am to 1:00 pm C, (a buffet lunch will be served during the meeting) (Ballroom A)

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, 713-356-0060) for additional information on the meetings and conference calling information. Board materials should be posted shortly.

We hope you will be able to make the leadership meeting and the dinner on December 9, followed by the Resources Committee meeting and the Board meeting on December 10. 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, naesb@naesb.org, 713-356-0060). We look forward to seeing you at the dinner on December 9 and our Board meeting on December 10 and at any of the related meetings noted above.

Best Regards,

Rae McQuade

Rae McQuade
NAESB President and COO

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CONFERENCE CALLING AND WEB CONFERENCING DETAILS

FOR THE DECEMBER 9-10, 2009 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.

December 9 1:00 to 3:00 pm C Wholesale Electric Quadrant Leadership Meeting (In person and Conference Call)

- Call in number 866-740-1260
- Access Code – 356-0063
- Security Code 7318

December 10 8:00 to 9:00 am C Resources Committee Meeting (In person and Conference Call)

- Call in number 866-740-1260
- Access Code – 356-0063
- Security Code 2843

December 10 9:00 am to 1:00 pm C Board Meeting (In person and Conference Call/Web Cast)

- Call in number 866-740-1260
- Access Code – 356-0060
- Security Code 6515

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.

I f the meeting has the web conferencing feature enabled, to join the web conference, go to 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
Marriott IAH Airport Hotel, Houston, Texas
Thursday, December 10 -- 9:00 a.m. to 1:00 pm Central

DRAFT AGENDA WITH LINKS

8:00 a.m. **Resources Committee Meeting**
8:30 a.m. **Continental Breakfast**

9:00 a.m.1.

1. Administration and Welcome
a) Antitrust Guidelines http://www.naesb.org/misc/antitrust_guidance.doc (Guidance)
b) Introduction of Board Members and Guestshttp://www.naesb.org/pdf4/bod_terms.pdf (Board Roster)

2. Adoption of the Agenda and Minutes
a) Agenda Adoption http://www.naesb.org/pdf4/bd121009a.doc (Agenda)
b) Adoption of Draft Minutes – September 24, 2009: http://www.naesb.org/pdf4/bd092409dm.doc (Minutes)

3. Membership and Financial Report
a) Membership Report: http://www.naesb.org/misc/board_membership_slide_120709.pdf (Slide) http://www.naesb.org/misc/2009_membership_report_113009.doc (Report)
b) Financial Report for 2009 YTD: http://www.naesb.org/misc/financial_profiles_1209.pdf (Slide) http://www.naesb.org/misc/financial_report_1209.doc (Report)

4. Presentation of 2010 Budget Proposal for Vote for Adoption
a) Budget Proposal for 2010: http://www.naesb.org/misc/2010_budget_board_1209.doc (Report)

5. Reports from board committees
a) Resources: http://www.naesb.org/pdf4/board_resource121009w1.pdf (Report)
b) WEQ Segment Restructuring: http://www.naesb.org/pdf4/weq_101909notes.doc (Notes of Meeting)
c) Retail Membership Update (see membership report from agenda item 3a)

6. Special Report from NIST on Cybersecurity Standards and the Smart Grid

7. Updates on specific efforts:
a) All Quadrants, Publications – http://www.naesb.org/misc/retail_publication_schedule_revised_120109.doc (Retail Version 1.2), http://www.naesb.org/misc/weq_publication_schedule_revised_120109.doc (WEQ Version 2.2) and http://www.naesb.org/misc/wgq_publication_schedule_revised_120109.doc (WGQ Version 2.0)
b) WEQ, Update on Order 890 efforts: http://www.naesb.org/pdf4/weq_oasis_110609_progress_report.xls (Report)
c) WEQ/Retail Electric, Update on Demand Response and Demand Side Management: http://www.naesb.org/pdf4/dsmee110209dm.doc (Notes for November Meeting)
d) WEQ/Retail Electric, Smart Grid Update: http://www.naesb.org/pdf4/smart_grid_ssd111709reqcom_pap3_rec.doc, http://www.naesb.org/pdf4/smart_grid_ssd111709reqcom_pap4_rec.doc, http://www.naesb.org/pdf4/smart_grid_ssd111709reqcom_pap9_rec.doc (Draft Use Cases)

8. 2009 Executive Committee Reports
a) Review of 2009 WGQ Annual Plan and vote to adopt with any revisions made during the meeting: http://www.naesb.org/pdf4/draft_wgq_2009_annual_plan.doc (Plan)
b) Review of 2009 Retail Annual Plan and vote to adopt with any revisions made during the meeting: http://www.naesb.org/pdf4/draft_retail_2009_annual_plan.doc (Plan)
c) Review of 2009 WEQ Annual Plan and vote to adopt with any revisions made during the meeting: http://www.naesb.org/pdf4/draft_weq_2009_annual_plan.doc (Plan)

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9. 2010 Executive Committee Reports

a) Review of 2010 WGQ Annual Plan and vote to adopt with any revisions made during the meeting: http://www.naesb.org/pdf4/wgq_2010_annual_plan.doc (Plan)

b) Review of 2010 Retail Annual Plan and vote to adopt with any revisions made during the meeting: http://www.naesb.org/pdf4/retail_2010_annual_plan.doc (Plan)

c) Review of 2010 WEQ Annual Plan and vote to adopt with any revisions made during the meeting: http://www.naesb.org/pdf4/weq_2010_annual_plan.doc (Plan)

10. Plan for March 2010 Board Meeting and Discussion of February 2010 Advisory Council Meeting

11. Old and New Business

a) Liaisons with external groups: FERC, NARUC, NERC, Other Groups

b) Board Meeting Schedule for 2010: http://www.naesb.org/misc/2010_schedule.doc

1:00 p.m. 12. Adjourn

Attire – Business Casual -- Working buffet lunch will be provided.

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October 22, 2009

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

FROM: Deonne Cunningham, NAESB Staff Attorney

RE: Draft Minutes of the NAESB Board Meeting – September 24, 2009

NAESB BOARD OF DIRECTORS MEETING
Marriott IAH Airport Hotel, Houston, Texas
Thursday, September 24, 2009 – 9:00 a.m. to 1:00 pm Central
DRAFT MINUTES

1. Administration and Welcome

Mr. Desselle welcomed the Board members and guests in the room and on the phone. Mr. Boswell read the antitrust guidelines. Ms. Cunningham called the roll of the NAESB Board members. Quorum was established.

The Board members reviewed the draft agenda. Mr. Ellsworth moved to adopt the agenda as drafted and Mr. Brown seconded the motion. The agenda was adopted as drafted. The Board members reviewed the draft minutes from the June 25, 2009 meeting. Ms. Crockett moved to adopt the minutes as drafted and Mr. Boswell seconded the motion. The motion passed without objection. The final minutes from the June 25, 2009 Board meeting can be found on the NAESB website through the following hyperlink: .http://www.naesb.org/pdf4/bd062509dm.doc.

2. Membership and Financial Report

Membership Report: Ms. McQuade reviewed the membership report. The membership profile reflects a net member loss of 17 since June 2009; the largest loss occurring in the Wholesale Electric Quadrant ("WEQ"). She noted however, that membership is starting to increase due to the recent Smart Grid efforts. She further noted that two new memberships in the WEQ were currently pending. As reported previously, based upon exit interviews, most companies cited the poor economy and consolidation of multiple memberships as the grounds for resignation. None of the resignations were cited as due to the increase in dues. Ms. McQuade reminded the Board members to review the contact list for accuracy and noted that companies may have multiple primary contacts.

Financial Report: Ms. Wishart provided an account of the financial report. She noted that currently revenues are over by $31,000 and the expenses are over budget by $51,000. However, the net income is $20,000 under budget than what was projected during the June 2009 meeting. Based upon the current financial status and year end estimates for 2009, the net income is $240,000 over as compare to last year. She estimated that for the end of 2009, income will be $60,000 over budget, expenses will be $97,000 over budget, and net income will be $36,000 under budget as previously reported.

3. Reports from Board Committees

Board Resources: Mr. Brown presented the Board Resources report. He noted that for the second quarter in a row there has been a significant discrepancy between the number of new memberships and the increase in resignations. In response to the loss in membership, the Board Resource Committee has discussed several action items that will be addressed in the next quarter. The Resource Committee will (1) contact those who are actively participating in the Wholesale and Retail DSM-EE and Smart Grid efforts in regards to membership, (2) work with NAESB staff to focus attention on organizations involved in the wind energy industry, the solar energy industry, demand response and the smart grid efforts, (3) Encourage discussion at all respective quadrant Leadership meetings as it relates to Membership and Board Resources (4)) work with NAESB staff to develop an electronic package that recognizes are achievements that can be circulated among all Board Members, distributed to potential members and to media. Mr. Brown noted that the Board Resources Committee has been comprised of the same participants for several years and encouraged Board Members who have not participated to get involved. He suggested that each Quadrant assign specific members to act as point persons for each of the Quadrants and take the lead in recruiting new membership.

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Mr. Desselle noted that a new segment for Wind, Solar, and Smart Grid may be necessary for the Wholesale and Retail Electric quadrants. He further noted that a special Board meeting may be scheduled in regards to this matter.

Retail Restructuring Update: Mr. Minneman provided an update to the recent retail restructuring activities and noted the Proposed Modifications to the Retail Electric Quadrant ("REQ") Procedures and the Proposed Modifications to the Retail Gas Quadrant ("RGQ") Procedures are included within the Board materials. He noted that the Retail Structure Review Committee met August 25, 2009 to discuss and vote on the proposed modifications to the Retail Gas and Electric quadrants. During this conference call the participants reviewed the proposed amendments and unanimously supported the modifications in compliance with Section 18 of both the REQ and RGQ Procedures. The proposed amendments were posted for two week comment period which closed on September 18, 2009. He stated that no comments were received with respect to the amendments and a Notational Ballot was distributed to the Retail Quadrant members on September 23, 2009. Mr. Booe stated that the Notational Ballot is due to the NAESB office on October 7, 2009.

Managing Committee Report: Mr. Desselle reviewed the Managing Committee report. He indicated that the Managing Committee met August 2009 to discuss compensation matters and future succession planning for the President of NAESB. During this meeting, the group drafted a proposal outlining the succession planning and Ms. McQuade is currently reviewing and revising the proposal. The proposal will be presented to the Board at future date. The Managing Committee also met briefly on September 24, 2009 to discuss the Board meeting and the addition of members to the Smart Grid Steering committee. Mr. Hurley and Mr. Burks have volunteered to participate on the Smart Grid Steering committee. The committee will hold a conference call in the near future to discuss critical infrastructure issues with respect to the WEQ

4. Updates on Specific Efforts

Publications: Ms. McQuade provided an update of the WGQ Version 1.9 publication. The publication will be released and concurrently filed with FERC on September 30, 2009. She commended Ms. Rager and Ms. Davis on their efforts to meet the publication deadlines.

Ms. McQuade provided an update of the Retail Version 1.1 publication. The publication was released on June 30, 2009 and was distributed to the state commissioners by Ms. McQuade at the July NARUC meeting.

Ms. McQuade noted that the WEQ Version 2.2 publication is on schedule to be released first quarter 2010 will include the remaining FERC Order No. 890 items.

WEQ: Ms York provided an update on recent Order 890 efforts. She noted that the WEQ OASIS subcommittee has met 5 times since the last Board meeting and have 6 remaining meetings between now and the end of the year. The subcommittee is continuing its work on Network Integrated Transmission Services (NITS) is on schedule to complete the NITS items by the 1st quarter 2010. It was noted that work related to Group 5 (which covers coordination of requests and rebid of partial service across multiple transmission systems) will have a modified completion date to 2nd quarter 2010. In regards to Group 4 (which covers preemption documenting procedures used to implement displacement on the pro forma tariff), the subcommittee has asked that the completion date be revised to 3rd quarter 2010. The subcommittee has also asked that the completion date for Group 6 (which covers miscellaneous clean-up work) be respectively moved to 4th quarter 2010.

WEQ and Retail DSM-EE efforts: Mr. Winkler provided the update of the DSM-EE efforts, noting that the WEQ completed the Wholesale Demand Response ("DR") standards and definitions in April and was submitted to the FERC. He noted that on September 17, 2009, FERC released the Notice of Proposed Rulemaking ("NOPR") on the Wholesale Demand Energy Response Measurement and Verification ("M&V") standards. He further noted comments on the NOPR are due to FERC on October 22, 2009. He further noted that FERC has asked for comments with respect to the Phase II effort and whether a deadline should be established for generating additional critical standards.

The process for Phase II of the Wholesale Demand Energy Response M&V standards is still underway and will continue to meet biweekly. He stated that a Scoping taskforce has met to discuss 2009 WEQ Annual Plan Item 4 which relates to specific M&V standards for Energy Efficiency in the Wholesale and Retail market. The taskforce

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has met four times and has developed scoping documents for Renewable Portfolio standards and/or Energy Efficiency standards. As noted in the scoping paper, the Cap and Trade standards have been placed into a provisional status due to pending federal legislation. Mr. Desselle encouraged members to reach out to those trade associations are currently polling NAESB members into becoming NAESB members themselves.

Mr. Precht provided a review of the Retail DSM-EE efforts and the draft recommendation for the measurement and verification DR standards out for formal comment. The draft recommendation for the Retail Demand Response M&V business practice standards is currently posted for 30-day formal comment period. The Retail Executive Committee ("EC") will meet September 25, 2009 for a technical conference to review the recommendation. The Retail EC will also meet October 2, 2009 for a single-topic conference call to discuss and possibly vote on the recommendation. Ms. McQuade commended the participants who have worked diligently on the proposed business practice standards. She stated that the retail recommendation contains improvements to the definitions contained in the wholesale final action and that the wholesale group will review those definitions to make conforming changes.

WEQ/REQ Smart Grid Update: Mr. Booe provided an update of the NAESB involvement in the national smart grid effort. He referenced the Smart Grid Assignment Paper which is contained within the Board materials. Ms. McQuade, Ms. Ogg, and Mr. Booe attended NIST workshops this summer, with Mr. Desselle attending other meetings as well in regards to the recent Smart Grid efforts. At the third and final NIST workshop held August 3-4, 2009, NAESB was given several assignments resulting from the priority action plans that were developed by NIST. The assignments to NAESB are in the areas of Demand Response, Distributed Energy Resources, Dynamic Pricing and development of Internet protocol suite. In response to these assignments, Mr. Desselle has created the Board Smart Grid Steering Committee and the Smart Grid Standards task force. The task force is working aggressively to meet the October 2009 deadline to NIST, and includes participants from CalConnect, Fix Protocol, OASIS and others. He noted that NIST will release a Smart Grid roadmap today. Mr. Booe further noted that the next meeting for the task force is October 1, 2009 and encouraged members to become involved in this effort. Ms. McQuade commended those participants that represent NAESB in the Smart Grid effort meetings.

5. Strategic Session Speakers and Panel Discussions

Mr. Desselle introduced and moderated the Strategic Session and Panel Discussion. The intent of the strategic session is to provide input for the upcoming planning sessions for NAESB for 2010. Mr. Slutz, Ms. Cross and Ms. Ogg were speakers for the gas side. For the electric side, the speakers were Mr. Gee, Ms. Ogg, and Ms. Brooks. Mr. Slutz provided a presentation on the recent changes to natural gas production and provided insight into possible standards development. Ms. Cross provided a presentation and discussed the effects of the recent passage of the Waxman-Markham bill and how this legislation could affect NAESB standards (particularly Renewal Energy and Portfolio standards). Ms. Ogg discussed NAESB's current role in the International Gas Union.

During the panel discussion, Mr. Gee provided insight into the recent Smart Grid efforts, the Federal Communication Commission's involvement in the Smart Grid effort and how NAESB should continue to reach out to trade associations. Ms. Ogg presented her observations in the recent Smart Grid efforts and provided insights into the meetings that she attended on behalf of NAESB. She referenced a recent article regarding NIST's work with recent Smart Grid efforts. Mr. Brooks also provided his thoughts as it relates to NAESB's involvement with respect to the Smart Grid efforts.

6. Executive Committee Reports

Mr. Desselle reviewed the Executive Committee reports. In the interest of time, he asked for members to approve the changes to the 2009 WGQ Annual Plan, the 2009 WEQ Annual Plan and 2009 Retail Annual Plan. The members voted by simple majority vote and the motion passed a simple majority vote unanimously.

7. Plan for December 2009 Board Meeting

Ms. McQuade requested that the Board leadership continue to think about items to be included on the 2010 Annual Plans. She noted that 2010 budget will be reviewed and considered for approval during the December 2009 meeting. The next NAESB Board of Directors meeting will be held on Thursday, December 10, 2009 at the Marriott Houston Intercontinental Hotel from 9:00 am to 1:00 pm Central.

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8. Old and New Business

Ms. McQuade noted that the comment period for the FERC NOPR for the WGQ standards has concluded. She further noted that comment period for the FERC NOPR on the WEQ Demand Response M&V standards will conclude October 22, 2009.

At the conclusion of the meeting, Mr. Cleveland was inducted as the incoming NAESB Chairman.

9. Adjourn

Mr. Hebenstreit moved to adjourn the meeting, seconded by .Mr. Desselle. The meeting adjourned at 12:44p.m. Central on September 24, 2009.

10. Board Attendance and Voting Record (Vacancies Omitted)

		ATTENDANCE
WGQ PRODUCERS SEGMENT		
Richard D. Smith	Regulatory & Compliance Manager, Noble Energy Inc.	In Person
Bill Hebenstreit	Marketing Manager, Goodrich Petroleum Company LLC	In Person
Keith Sappenfield	Regional Director – US Regulatory Affairs, EnCana Oil & Gas (USA) Inc.	Phone
Marty Patterson	Vice President – Commercial Operations, Foothills Energy Ventures LLC	In Person
Pete Frost	Director - Regulatory Affairs, ConocoPhillips Gas and Power Marketing	
WGQ PIPELINE SEGMENT		
Cathie Legge	Manager – Customer Service, Alliance Pipeline LP	In Person
Bill Grygar	Vice President, Panhandle Eastern Pipe Line	
Susanna B. Barry	Vice President – Commercial Operations, Tennessee Gas Pipeline Company	In Person
Machelle Grim	Director – Regulatory Affairs ConocoPhillips Gas and Power Marketing	In Person
Richard Kruse	Senior Vice President, Spectra Energy Transmission	Phone
WGQ LOCAL DISTRIBUTION COMPANY (LDC) SEGMENT		
Craig Colombo	Energy Trader III, Dominion Resources	In Person
Adrian Chapman	Vice President, Regulatory Affairs & Energy Acquisition, Washington Gas	Phone
Carlos Thillet	Manager, Gas Supply & Transportation, PECO Energy Co.	
Mike Novak	Asst. General Manager, National Fuel Gas Distribution Corporation	Phone
Lee Stewart	Senior Vice President, Gas Transmission, Southern California Gas Company	In Person
WGQ END USERS SEGMENT		
Valerie Crockett	Senior Energy & Policy Specialist, 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 Co.	In Person
Lori-Lynn C. Pennock	Senior Fuel Supply Analyst, Salt River Project	In Person
Jim Templeton	Principal, Comprehensive Energy Services	In Person
WGQ SERVICES SEGMENT		
Steve Abbey	Manager of Regulatory Affairs, Marketing Department, Anadarko	
Rusty Braziel	Managing Director, Bentek Energy, LLC	
Jim Buccigross	Vice President Energy Industry Practice, 8760 Inc.	Phone
Lori Leeder	Relationship Manager/Business Development – Asset Optimization, Vega Energy Partners	In Person
REQ SUPPLIERS SEGMENT		
Robert K. Koger	President, North Carolina Advanced Energy Corporation	
REQ DISTRIBUTORS SEGMENT		
David Koogler	Director – State Regulation, Dominion Virginia Power	Phone
Dennis Derricks	Director Regulatory Policy and Analysis, Wisconsin Public Service Corporation	
Ruth Kiselewich	Director, Conservation Programs, Baltimore Gas & Electric Company	
Debbie McKeever	Market Advocate, Oncor	In Person

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			ATTENDANCE
REQ END USERS SEGMENT			
Sonny Popowsky	Consumer Advocate, Pennsylvania Office of Consumer Advocate		
James P. Cargas	Senior Assistant City Attorney, City of Houston		In Person
REQ SERVICE PROVIDERS SEGMENT			
Jim Minneman	Controller, PPL Solutions LLC		Phone
David Pickles	Vice President, ICF International		
J Cade Burks	President, EC Power		In Person
Austin Morris	Managing Partner – Energy, Sungard Consulting Services, LLC		In Person
WEQ TRANSMISSION SEGMENT		**SUB SEG:**	
Dan Klempel	Director Transmission Regulatory Compliance, Basin Electric Power Cooperative	Muni/Coop	
Chuck Feagans	Senior Manager, Reliability Policy, Tennessee Valley Authority	Fed/State/Prov.	Phone
John E. Lucas	Director - Transmission Policy and Services, Southern Company Transmission	IOU	Phone
Jill Horswell	Director Transmission, Southern California Edison	at large	Phone
Edward J. Davis	Policy Consultant, Entergy Services, Inc.	at large	In Person
Michelle Mizumori	Market Interface Manager, Western Electricity Coordinating Council (WECC)	At-Large	In Person
WEQ GENERATION SEGMENT			
Curtis Winterfeld	Vice President of Power Marketing, Deseret Generation & Transmission Cooperative	Muni/Coop	In Person
Belinda Thornton	General Manager – Energy Origination, Tennessee Valley Authority	Fed/State/Prov.	Phone
Lou Oberski	Director – Electric Market Policy, Dominion Resources Services, Inc.	IOU	Phone
Charles W. Severance	Manager – Supply & Wholesale Services, Wisconsin Public Service Corporation	IOU	Phone
Gloria Godson	Vice President Energy Policy, Conectiv Energy Supply, Inc.	Merchant	
Shah Hossain	Senior Regulatory Specialist, Westar Energy, Inc.	at large	Phone
WEQ MARKETERS/BROKERS SEGMENT			
Roy True	Manager of Regulatory and Markets Development, 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.	In Person
Jack Cashin	Senior Manager of Policy, Electric Power Supply Association (EPSA)	at large	
Sam Forrest	Vice President, Energy Marketing and Trading, Florida Power & Light	IOU	
R. Scott Brown	Vice President and Director, Exelon Generation Power Team	IOU	In Person
Rick Smead	Director, Navigant Consulting, Inc.	At-Large	
WEQ DISTRIBUTION/LOAD SERVING ENTITIES (LSE) SEGMENT			
Arthur G. Fusco	Vice President and General Counsel, Central Electric Power Cooperative Inc.	Muni/Coop	In Person
Paul McCurley	Manager – Power Supply, National Rural Electric Cooperative Association	Muni/Coop	
Frank Johnson	Senior Vice President Electric Transmission and Distribution, Consumers Energy	IOU	
Thomas Burgess	Director – FERC Compliance, FirstEnergy Service Company	at large	
Joe Hartsoe	Managing Director – Federal Policy, American Electric Power Service Corp.	at large	
Bruce Ellsworth	New York State Reliability Council	At-Large	In Person
WEQ END USERS SEGMENT			
Jesse D. Hurley	Chief Executive Office, Shift Research , LLC	at large	In Person
Aaron Breidenbaugh	Senior Manager – Regulatory Affairs and Public Policy – New York, EnerNOC, Inc.		

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			ATTENDANCE
Thomas G. Dvorsky	Director of the Office of Electricity, Gas, and Water at the New York State Department of Public Service	Regulator	
Rick Lentz	Fellow with Sungard	at large	In Person
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		In Person
Kent Saathoff	Vice President of System Operations, 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)		Phone
Andy Ott	Senior Vice President Marketing, PJM Interconnection		
Bill Phillips	Vice President Standards Compliance & Strategy, Midwest ISO (MISO)		In Person
Don Tench	Director Planning & Assessments, Independent Electricity System Operator (IESO)		
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.		In Person
SERVICE PROVIDERS SEGMENT			
Leigh Spangler	President, Latitude Technologies Inc.		In Person
Dave Darnell	President & CEO, Systrends USA		
Greg Lander	President, Capacity Center		

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

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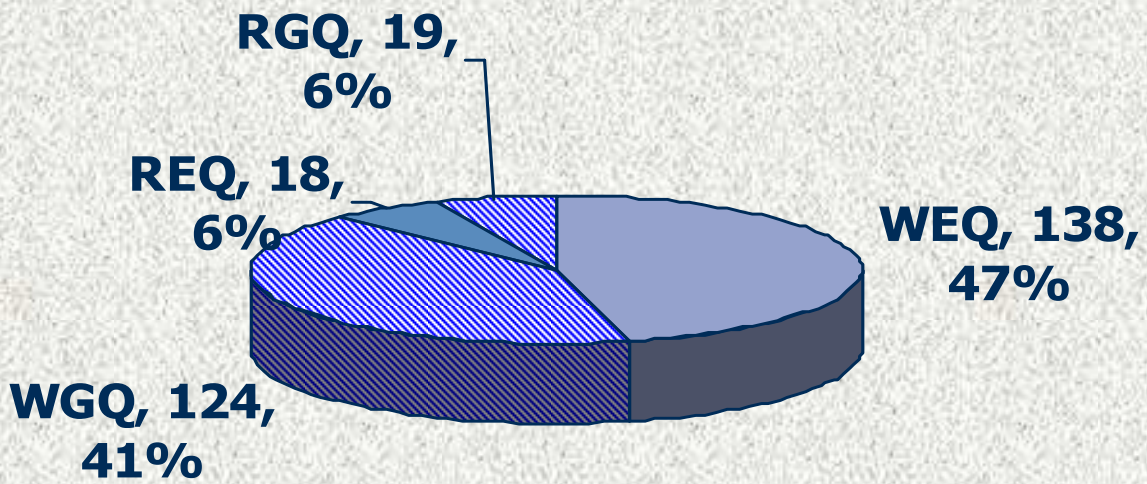
11. Other Attendance

Name	Organization	Attendance
Jonathan Booe	NAESB	In Person
Bill Boswell	NAESB	In Person
Dick Brooks	ISO New England	In Person
Kathryn Burch	Spectra Energy Transmission	In Person
Christopher Burden	Williams Gas Pipeline	In Person
Lorraine Cross	Cross & Company, P.L.L.C.	In Person
Cory Cummings	NAESB	In Person
Deonne Cunningham	NAESB	In Person
Dale Davis	Williams Gas Pipeline	In Person
Rae Davis	Carolina Gas Transmission Corporation	Phone
Bob Gee	The Gee Strategies Group	In Person
Bill Griffith	El Paso Natural Gas	In Person
Shah Hossain	Westar Energy, Inc.	Phone
Sylvia Munson	ERCOT	Phone
Rae McQuade	NAESB	In Person
Joelle Ogg	Brunenkant & Cross, LLP	In Person
Denise Rager	NAESB	In Person
Anjali Sheffrin	California Independent System Operator	In Person
Jim Slutz	Global Energy Strategies LLC	In Person
Veronica Thomason	NAESB	In Person
Edmundo Toro	PNE Wind USA, Inc.	In Person
Kim Van Pelt	Panhandle Eastern Pipeline	In Person
Jill Vaughn	Preferred Legal Services	In Person
Mark Westendorf	Midwest ISO	Phone
Charles Yeung	SPP	In Person
Kathy York	Tennessee Valley Authority	In Person
Randy Young	Boardwalk Pipelines, LP	In Person

North American Energy Standards Board

Organizational Profile



Membership Profile

November 30, 2009

Total Membership

299

Quadrant Statistics	WEQ	WGQ	REQ	RGQ	Total
Membership YE 2008	150	135	23	19	327
Reclassification	-1	0	+1	0	0
Net Change	-11	-11	-6	0	-28
Membership YTD	138	124	18	19	299

North American Energy Standards Board Membership List
As of November 30, 2009

NAESB Membership Statistics – Changes by Quadrant for 2009 as of November 30, 2009

NAESB Membership Report - Quadrant/Segment Membership Analysis		Number of Members
WGQ Segments	**TOTAL**	**124**
	End Users	17
	Distributors	21
	Pipelines	42
	Producers	15
	Services	29
REQ Segments	**TOTAL**	**18**
	End Users/Public Agencies	3
	Utilities	7
	Service Providers/Suppliers	8
RGQ Segments	**TOTAL**	**19**
	End Users/Public Agencies	1
	Distributors	6
	Service Providers/Suppliers	12
WEQ Segments	**TOTAL**	**138**
	End Users	9
	Distributors	22
	Transmission	45
	Generation	25
	Marketers	26
	None Specified	1
	Independent Grid Operators/Planners	10

North American Energy Standards Board Membership List
As of November 30, 2009

WEQ	New Members:	+ 9
	Los Angeles Department of Water and Power (Transmission, Muni/Coop), Los Angeles Department of Water and Power (Marketers/Brokers, Muni/Coop); SunGard Consulting Services, LLC (End User, at large), Alabama Municipal Electric Authority (Distribution, Muni/Coop), Arkansas Electric Cooperative Corporation (Generation, Muni/Coop), Shift Research, LLC (End Users, at large); Manitoba Hydro (Transmission, Fed/State/Prov); Manitoba Hydro (Marketers/Brokers, Fed/State/Prov), SonicWALL, Inc. (End User, Enduse)	
	Member Resignations:	- 19
	Imperial Irrigation District (Marketers/Brokers, Muni/Coop), PSEG Energy Resources and Trading LLC (Marketers/Brokers, IOU), PSEG Power, LLC (Generation, Merc), North Carolina Electric Municipal Power Agency #1 (Marketers/Brokers, Muni/Coop), ElectriCities of North Carolina (Generation, Muni/Coop), SUEZ Energy Marketing NA, Inc. (Marketers/Brokers, Not IOU), Exelon Corporation – PECO Energy (Distribution, IOU), Otter Tail Power Company (Transmission, IOU), Public Power Council (Distribution, Muni/Coop), PacifiCorp (Generation, IOU), ExxonMobil Gas Marketing (End Users, Self Generator), Ameren Services (Marketer/Broker, IOU), Ontario Power Generation (Generation, Merchant), Portland General Electric Company (Marketer/Broker, IOU), Edison Mission Marketing & Trading, Inc. (Generation, Merchant), Hydro One Networks (Transmission, ITC), Public Service Electric and Gas Company (Distribution, IOU), Qualedi, Inc. (WEQ, Generation), Tennessee Valley Authority (Distribution, Other)	
	Membership Reclassification:	
	SunGard Consulting Services, LLC (from WEQ, End User, at large to REQ, Services)	
WGQ	New Members:	+ 2
	Golden Pass Pipeline, LLC (Pipeline), Noble Americas Corp. (Pipeline)	
	Member Resignations:	- 13
	Cascade Natural Gas Corporation (LDC), UBS Energy LLC (Services), Westfield Gas & Electric Light Dept. (LDC), Hess Corporation (Services), Lehman Brothers Commodity Services, Inc. (Services), Chandeleur Pipe Line Company (Pipeline), Virginia Power Energy Marketing, Inc. (Services), Cheniere LNG Marketing, Inc. (Services), NiSource, Inc. (LDC) reinstated, Husky Energy Marketing, Inc. (Producer), Husky Gas Marketing, Inc. (Producer), Husky Marketing and Supply Company (End User), Ozark Gas Transmission (WGQ, Pipeline), SUEZ Energy Marketing NA, Inc. (Services)	
REQ	New Members:	+ 2
	City of Houston (End Users), Pennsylvania Public Utility Commission (End Users)	
	Member Resignations:	- 8
	Public Service Electric & Gas Co. (Distribution), MidAmerican Energy (Distribution), Office of Public Advocate, State of Maine (End Users), Consolidated Edison Co. (Distribution), Advantage IQ, Inc. (End Users), Direct Energy Business Services (Supplier), ICF International (Services), Constellation New Energy (REQ, Service Providers/Suppliers)	
	Membership Reclassification:	
	SunGard Consulting Services, LLC (from WEQ, End User, at large to REQ, Services)	
RGQ	New Members:	+ 2
	Asgard Energy, LLC (Supplier), Clarity Systems, Ltd. (Services)	
	Member Resignations:	- 2
	Xcel Energy (Distribution) Baltimore Gas and Electric (Distribution),	
TOTAL	New Members	15
	Member Resignations:	42

North American Energy Standards Board Membership List
As of November 30, 2009

	Organization	Seg[1]	Contact	Sub-Seg[2]
Retail Electric Quadrant Members:				
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	Dominion Retail	s	William Barkas, Richard Zelenko	
6	Dominion Virginia Power	u	David F. Koogler, Mary Edwards	
7	E:SO *(Formerly EC Power International)*	s	Judy Bailey, J. Cade Burks, Jennifer Teel	
8	Electric Reliability Council of Texas (ERCOT)	s	Susan Munson, Kent Saathoff	
9	Exelon Energy Delivery	u	Toni Garza	
10	North Carolina Advanced Energy Corporation	s	Robert K. Koger	
11	Oncor	u	Larry Williford, Debbie McKeever	
12	Pennsylvania Office Of Consumer Advocate	e	Tanya J. McCloskey, Sonny A. Popowsky	
13	Pennsylvania Public Utility Commission	e	Robert F. Wilson, Annunciata E. Marino	
14	PPL Solutions, LLC	s	James M. Minneman, Kim Wall	
15	Southern Company Services	s	Barbara Hingst	
16	SunGard Consulting Services, LLC	s	Austin Morris	
17	Ventyx, Inc.	s	Anthony Hill	
18	Wisconsin Public Service Corporation	u	Dennis Derricks, Les Nishida, Ken Thiry	
Wholesale Gas Quadrant Members:				
1	8760, Inc.	s	Jim Buccigross	
2	Alliance Pipeline LP	pl	Jim Goldmann, Cathie Legge, Brian Troicuk	
3	Ameren Corporation	l	Scott Glaeser, Ken Dothage, Jim Massmann	
4	Anadarko Energy Services Company	s	John Bretz, Steven Abbey	
5	ANR Pipeline Company	s	Sandy Meyers, Joseph E. Polland, Rene Staeb, Debbie Forth, Carol Wehlmann	
6	Apache Corporation	pr	Maribeth Bedevian	
7	Arizona Public Service Company	e	Tom Carlson, Kelly Daly	
8	Atmos Energy	pl	Steve Easley	
9	Ballard Natural Gas, LLC	s	Susan Thibodeaux	
10	Baltimore Gas & Electric Co.	l	Phil Precht, Ron Jennings	
11	Barclays Bank PLC	s	Guy Kern-Martin	
12	Bentek Energy, LLC	s	E. Russell Braziel	

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

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

North American Energy Standards Board Membership List
As of November 30, 2009

	Organization	Seg[1]	Contact	Sub-Seg[2]
13	BG Energy Merchants, LLC	s	Martha Braddy, Denise Almoina, Susan Bailey, Melody Fontenot	
14	Boardwalk Pipelines, LP	pl	Randy Young, Mitch Whitehead	
15	Boeing Co., The	e	Tina Burnett	
16	BP Energy	pr	Mark Stultz, Rhonda Denton	
17	Calpine Energy Services, LP	e	Shonnie Daniel, Jay Dibble	
18	Cargill Incorporated	s	Lester Welch	
19	Carolina Gas Transmission Corporation	pl	Rae Davis, Dana B. Randall	
20	CenterPoint Energy Gas Services, Inc.	s	James G. Beste, Larry Kunkle	
21	CenterPoint Energy Gas Transmission Company	pl	Larry Thomas	
22	CenterPoint Energy Mississippi River Transmission Corporation	pl	Robert Trost	
23	Cheniere Pipeline Company	pl	Whit Scott	
24	Chevron Natural Gas	pr	Charles (Chuck) Cook	
25	Chevron Pipe Line Company	pl	Mary Anne Collins, Deborah Plattsmier, Jeff Kirk	
26	Cimarex Energy Co.	pr	Charlotte Baker	
27	Citigroup Energy Inc.	s	Carrie Southard, Angela Davis	
28	Colorado Springs Utilities	l	Joe M. Holmes	
29	Columbia Gas Transmission	pl	Claire Burum	
30	Comprehensive Energy Services	e	Jim Templeton	
31	ConocoPhillips Gas and Power	pr	Peter Frost	
32	Consolidated Edison Company of NY	l	Scott Butler, Paul Olmsted	
33	Constellation Energy Commodities Group Inc.	s	Lisa Simpkins, Joseph Kirwan, Andrea Kullman, Jennifer Scott	
34	Dauphin Island Gathering Partners	pl	Katie Rice	
35	DB Energy Trading	s	William Donnelly, Travis McCullough	
36	Defense Energy Support Center	e	Veronica Jones, Kevin Ahern	
37	Department of Energy	e	Christopher Freitas	
38	Devon Energy Corporation	pr	Bill Green, Dianne Dunbar	
39	Dominion Resources	l	Craig Columbo	
40	Dominion Transmission, Inc.	pl	Gary Sypolt, Iris King	
41	DTE Energy Trading, Inc.	s	Gregory V. Staton, James Buck, Dena Crawford, Marcia L. Hissong, Ann Marie Jambor, Cynthia Klots, Shelley Greene	
42	El Paso Natural Gas	pl	William Griffith	
43	El Paso Exploration & Production Company	pr	David A. Webster, Stephanie Karm	
44	Enbridge Energy Company, Inc.	pl	Terry McGill	
45	EnCana Marketing (USA) Inc.	s	Keith Sappenfield	
46	EnCana Oil & Gas (USA) Inc.	pr	Keith Sappenfield	
47	Energy East Management Corporation	l	Mark Marini	
48	Entergy Services, Inc.	e	Laura Berryman, Terry Shields	
49	Enterprise Products Partners L.P.	pl	Richard W. Porter, Jeff Molinaro	

North American Energy Standards Board Membership List
As of November 30, 2009

	Organization	Seg[1]	Contact	Sub-Seg[2]
50	Equitrans, LP	pl	Joseph M. Dawley	
51	ExxonMobil Gas & Power Marketing Company a division of Exxon Mobil Corporation	pr	Randy E. Parker, John W. Poe	
52	Florida Power & Light Company	e	Dona Gussow, Art Morris	
53	Foothills Energy Ventures, LLC	pr	Marty Patterson	
54	FPL Energy Power Marketing, LLC	e	Marty Jo Rogers	
55	Gas Transmission Northwest Corp.	pl	Jay Story	
56	Golden Pass Pipeline, LLC	pl	Susan Braden	
57	Goodrich Petroleum Company, L.L.C.	pr	Bill Hebenstreit	
58	Great Lakes Gas Transmission	pl	Gene Fava	
59	High Mount Exploration and Production, Inc.	pr	David Ogden, Gary Weaver, Sheri Heslington	
60	Houston Pipe Line Company LP	pl	Josie Castrejana, Melissa Graves, Robert Walker	
61	Imperial Irrigation District	e	William Rapp	
62	Integrys Energy Group, Inc.	l	David E. Wear	
63	Iroquois Gas Transmission System	pl	Tom Gwilliam	
64	JP Morgan Ventures Energy Corp	S	Paul Tramonte	
65	Kern River Gas Transmission Co	pl	Brenda Horton	
66	Laclede Gas Co.	l	Kenneth Neises	
67	Latitude Technologies	s	Leigh Spangler	
68	Louis Dreyfus Energy Services	s	Mary Ellen Bell, Ruby H. Melton	
69	Lower Colorado River Authority	e	Mickey Bell	
70	Macquarie Cook Energy, LLC	s	Angela Jones	
71	Marathon Oil Company	pr	Robin Perrine	
72	Mewbourne Oil Company	pr	Michael F. Shepard	
73	Mirant Energy Trading, LLC	e	Laura Trautman, John F. Hogan	
74	National Fuel Gas Distribution	l	Michael Novak	
75	National Fuel Gas Supply Corp.	pl	Joseph Kardas	
76	National Grid Gas Distribution Companies	l	Bob Superty	
77	Natural Gas Pipeline Co of America	pl	Paul Love, Stan Thomas, Mike Schisler, Paul Haas	
78	New Jersey Natural Gas Company	l	Douglas C. Rudd	
79	Nexen Marketing	s	Shelley Leavitt	
80	NiSource, Inc.	l	George Simmons, Sorana Linder	
81	Noble Americas Corp	pl	Joseph Limone	
82	Noble Energy, Inc.	pr	Richard Smith, Tammy M. Stevens	
83	Northern Border Pipeline Company	pl	Scott Coburn	
84	Northern Natural Gas	pl	Mary Darveaux	
85	Northwest Natural Gas Company	l	Randolph Friedman	
86	NOVA Gas Transmission Ltd.	pl	Doug Miller	
87	OGE Energy Resources, Inc.	s	Cary Metz	
88	ONEOK	l	Richard Tangeman	
89	ONEOK Partners GP, LLC	pl	Teri Tingler	

North American Energy Standards Board Membership List
As of November 30, 2009

	Organization	Seg[1]	Contact	Sub-Seg[2]
90	Pacific Gas & Electric	l	John Breen, Don Petersen	
91	Panhandle Eastern Pipe Line	pl	William Grygar, Kim Van Pelt	
92	PECO Energy Co.	l	Carlos Thillet	
93	Pemex Gas Y Petroquimica Basica	s	Juan Enrique Gonzalez Azuara	
94	Peoples Gas System (A division of Tampa Electric Co)	l	Wraye Grimard	
95	Platts	s	Bill Murphy	
96	Portland Natural Gas Transmission System	pl	David Haag	
97	PPL EnergyPlus, LLC	e	Anne Lovett	
98	Public Service Electric & Gas	l	David Wohlfarth	
99	Questar Pipeline Co.	pl	Scott Hansen	
100	Quorum Business Solutions Inc.	s	Anne Golenternek, Michael Lewis	
101	Reliance Gas Transportation Infrastructure Limited	pl	Jagjit S. Yadav	
102	Salt River Project Agricultural Improvement & Power District	e	Lori-Lynn C. Pennock	
103	Sempra Energy - Southern California Gas Co.	l	Lee Stewart, Rodger Schwecke	
104	Sequent Energy Management, L.P.	s	Pat Metteauer	
105	Shell Energy North America (US), L.P.	s	Eric Gillaspie	
106	SolArc, Inc.	s	Mark Davis	
107	Southern California Edison Company	e	Roman Bakke, Curt Roney	
108	Southern Company Services, Inc.	e	Alan Kilpatrick, Bryan Mitchell	
109	Southern Natural Gas Co.	pl	Renee Hyde, Tracey Nicholson, Ludean Wyatt	
110	Southern Star Central Gas Pipeline	pl	Philip Rullman, Dale Sanders	
111	Southwest Gas Corporation	l	Larry Black	
112	Spectra Energy Transmission	pl	Richard Kruse	
113	SunGard	s	Lucia Nail	
114	Tennessee Gas Pipeline Company	pl	Sue Barry, Mark Gracey	
115	Tennessee Valley Authority	e	Valerie Crockett	
116	Tiger Natural Gas	s	Tracy Phillips	
117	TransCanada Pipelines	pl	Doug Miller	
118	Transwestern Pipeline Company, LLC	pl	Blair V. Lichtenwalter, Mary Draemer, David Mendoza	
119	Vector Pipeline L.P.	pl	Amy Bruhn	
120	Vega Energy Partners, Ltd	s	Julie Pincus, Lori Leeder	
121	Washington Gas Light Co.	l	Adrian Chapman, Mark Lowe, Paul Buckley	
122	Williams Gas Marketing, Inc.	s	Rich Ficken	
123	Williams Gas Pipeline	pl	Dale Davis, Christopher Burden	
124	Williston Basin Interstate Pipeline	pl	Keith Tiggelaar, Gwen Schoepp, Kelly Brooks, Lori Myerchin	
Wholesale Electric Quadrant Members:				
1	ACES Power Marketing LLC	m	Roy J. True, Amadou Fall	muni
2	Alabama Municipal Electric Authority	d	Ray Phillips	muni

North American Energy Standards Board Membership List
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	Organization	Seg[1]	Contact	Sub-Seg[2]
3	Alberta Electric System Operator	i	Diana Pommen, Henry Ren	
4	American Electric Power Service Corp.	d	Barbara Radous, Joseph Hartsoe, Phil Cox	iou
5	American Municipal Power, Inc.	m	Mack Thompson, Chris Norton	muni
6	American Public Power Association	d	Allen Mosher	muni
7	American Wind Energy Association	g	Robert Gramlich	merc
8	APS Marketing and Trading	m	Steve Norris	iou
9	Arizona Public Service Company	t	Mark W. Hackney	iou
10	Arkansas Electric Cooperative Corporation	g	Ricky Bittle	muni
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	Black Hills Corporation	t	Larry D. Williamson	iou
15	Bonneville Power Administration	d	Sydney D. Berwager	other
16	Bonneville Power Administration	g	Francis Halpin, Robin Chung	fed
17	Bonneville Power Administration	m	Brenda Anderson	fed
18	Bonneville Power Administration	t	Barbara Rehman, Tom Davis	fed
19	BP America Inc.	e	Jeanne Zaiontz	lind
20	British Columbia Transmission Corporation	t	Rohan Soulsby	fed
21	California Department of Water Resources	g	William (Bill) Forsythe, Chi Doan	fed
22	California ISO	i	Yakout Mansour	
23	Central Electric Power Cooperative	d	Arthur Fusco	muni
24	Cleco Power, LLC	t	Cindy Guillot	iou
25	Comprehensive Energy Services	e	Jim Templeton	enduse
26	Conectiv Energy Supply, Inc.	g	Gloria Godson	merc
27	Consolidated Edison Company of New York, Inc.	t	Scott Butler	iou
28	Consumers Energy Company	d	Andrew C. Dotterweich, Frank Johnson	iou
29	Dairyland Power Cooperative	t	Chuck Callies	muni
30	Deseret Power Electric Co-op	g	Curt Winterfeld	muni
31	Dominion Energy Marketing, Inc.	g	Lou Oberski, Jalal Babik	iou
32	Duke Energy Americas, LLC (DEA)	g	Walt Yeager	iou
33	Duke Energy Corp.	d	Alan Pritchard	iou
34	Dynegy Power Marketing, Inc.	g	Ben Trammell	merc
35	Edison Electric Institute	n	David Owens, Dave Dworzak, James P. Fama	n
36	Electric Power Supply Association	m	Jack Cashin, Barry Green	at large
37	Electric Reliability Council of Texas (ERCOT)	i	Bill Blevins, Paul Wattles, Joel Mickey	
38	Empire District Electric Company, The	t	Bary K. Warren	iou
39	Energy East Management Corporation	t	Mark Marini	iou
40	EnerNOC, Inc.	e	Aaron Breidenbaugh	end use
41	Entegra Power Group, LLC	g	Rebecca Turner	merc
42	Entergy Services, Inc.	t	Edward J. Davis, Narinder Saini	iou

North American Energy Standards Board Membership List
As of November 30, 2009

	Organization	Seg[1]	Contact	Sub-Seg[2]
43	Exelon Generation - Power Team	m	Jack Crowley	iou
44	First Energy Service Company	d	Robert M. Martinko, Thomas C. Burgess	iou
45	FirstEnergy Solutions Corp.	m	Mark Travaglianti	iou
46	Florida Municipal Power Agency	g	Frank Gaffney	muni
47	Florida Municipal Power Agency	d	Frank Gaffney	muni
48	Florida Power & Light Company	m	Gerry Yupp, Tim Gerrish	iou
49	Florida Power & Light Company	t	Marty Mennes, Bob Birch	iou
50	Georgia Transmission Corporation	t	Patrick McGovern	muni
51	Hydro – Quebec Transenergie	t	Glenn Sylvain	fed
52	Idaho Power Company	t	Tessia Park	iou
53	Independent Electricity System Operator (IESO)	i	Cristian Dragnea, Biju Gopi	
54	Indiana Municipal Power Agency	g	Scott Berry	muni
55	ISO New England, Inc.	i	Matthew F. Goldberg	
56	Lincoln Electric System	g	Douglas Bantam	muni
57	Los Angeles Department of Water and Power	t	Mohammed Johar Beshir	muni
58	Los Angeles Department of Water and Power	m	Bradford L. Packer, Joel F. Cordero	muni
59	Manitoba Hydro	t	Blaine Poff	fed
60	Manitoba Hydro	m	Blaine Poff	fed
61	Michigan Public Power Agency	d	James R. Nickel, Daniel E. Cooper	muni
62	MidAmerican Energy Company	m	Dennis Kimm	iou
63	Midwest Independent Transmission System Operator	i	William (Bill) Phillips, Ed Skiba	
64	Midwest Reliability Organization	t	Dan Schoenecker	at large
65	Missouri River Energy Services	d	Brian Zavesky	muni
66	Modesto Irrigation District	t	Roger Van Hoy	muni
67	National Association of Regulatory Utility Commissioners	e	Lou Ann Westerfield	reg
68	National Grid	t	Edward M. Kremzier	iou
69	National Rural Electric Cooperative Assoc.	d	Barry Lawson, Paul McCurley	muni/coop
70	New York Independent System Operator (NYISO)	i	Rana Mukerji	
71	New York State Reliability Council	d	P. Donald Raymond	at large
72	North American Electric Reliability Corporation	d	Gerry Adamski, Andy Rodriquez	at large
73	North Carolina Electric Membership Corporation	d	David Beam	muni
74	NCMPA1	d	Martin Summe, George Landis	muni
75	Northeast Utilities Service Company	t	David Boguslawski, Calvin A. Bowie	iou
76	Northwestern Corporation	t	Mike Cashell	iou
77	NRG Energy, Inc.	g	Alan Johnson, Jennifer J. Vosburg	merc
78	NV Energy	m	Sheryl Torrey	iou
79	NV Energy, Inc.	t	Patricia Englin	iou
80	Open Access Technology International, Inc.	e	Michehl Gent	at large
81	Open Access Technology International, Inc.	t	Paul R. Sorenson	at large

North American Energy Standards Board Membership List
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	Organization	Seg[1]	Contact	Sub-Seg[2]
82	PacifiCorp	m	John Apperson	iou
83	PacifiCorp	t	Shay Labray	iou
84	PHI Power Delivery	t	Ken Gates	iou
85	PJM Interconnection	i	Patrick Brown, Cathy Wesley	
86	Portland General Electric	t	Frank Afranji, John Walker	iou
87	Powerex Corp	m	Michael L McWilliams, Sharole Tylor	fed
88	PowerSouth Energy Cooperative	d	William Ronald Graham	muni
89	PPL Electric Utilities Corporation	t	Ray Mammarella	iou
90	Progress Energy (Regulated)	m	James Eckelkamp	iou
91	Progress Energy	t	Phillip W. Lewis, Michael Anthony, Leslie Williams, Lee Schuster	iou
92	Public Service Company of New Mexico	m	Steven Maestas, Darren Wilkins, Patricia Merville	iou
93	Public Service Electric and Gas Company	t	Kenneth D. Brown	iou
94	Puget Sound Energy, Inc.	t	George Marshall, Bob Harshbarger	iou
95	RRI Energy Services, Inc.	g	Trent Carlson	merc
96	Sacramento Municipal Utility District	d	Steve Sorey	muni
97	Salt River Project Agricultural Improvement and Power District	t	Wendy Weathers, Michael J. Pfeister	fed
98	Salt River Project Agricultural improvement and Power District	m	Richard Lehman	fed
99	San Diego Gas & Electric Company	t	Patricia vanMidde	iou
100	Santee Cooper	t	Tom Abrams	fed
101	Seattle City Light	d	Marilynn Semro, Thomas P. Rowan, Doug Rough	muni
102	Seminole Electric Cooperative, Inc.	m	Steve Wallace	muni
103	Shell Energy America (US), L.P.	m	Robert Reilley, Paul Kerr	niou
104	Shift Research, LLC	e	Jesse D. Hurley	at large
105	SonicWALL, Inc.	e	Boris Yanovsky	enduse
106	South Carolina Electric & Gas Company	t	S. Porcher Stoney	iou
107	South Carolina Electric & Gas Company	m	Kevin Spitzform	iou
108	Southeastern Power Administration	g	Carter B. Edge	fed
109	Southern California Edison	t	Weston Williams	iou
110	Southern California Edison Co.	g	Tracy Bibb	iou
111	Southern Company Services, Inc.	d	Gary Rozier, Greg Butrus	iou
112	Southern Company Services, Inc.	g	John Ciza	iou
113	Southern Company Services, Inc.	m	Joel Dison	iou
114	Southern Company Services, Inc.	t	R.D. (Dean) Ulch, John Lucas, JT Wood, James Y. Busbin, Daryl McGee	iou
115	Southwest Power Pool	i	Carl Monroe, Michael Desselle, Charles Yeung	
116	Southwest Transmission Cooperative, Inc.	t	Larry D. Huff	muni
117	Southwestern Power Administration	t	Tracey Stewart	fed
118	SunGard	e	Andrew Tritch	at large
119	Tampa Electric Company	m	Gail M. McKaig	iou

North American Energy Standards Board Membership List
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	Organization	Seg[1]	Contact	Sub-Seg[2]
120	Tenaska, Inc.	g	Scott Helyer	merc
121	Tennessee Valley Authority	g	Kathy York	fed
122	Tennessee Valley Authority	m	Belinda Thornton, Valerie Crockett	fed
123	Tennessee Valley Authority	t	Chuck Feagans	fed
124	TranServ International, Inc.	i	Kevin Burns	
125	Tri-State Generation and Transmission Association, Inc.	t	Keith V. Carman	muni
126	Tri-State G&T Association, Inc.	g	Janelle Marriott	muni
127	Tucson Electric Power Company	t	Raquel Aguilar, Judy Fregoso, Ed Beck	iou
128	United Illuminating Company, The	t	Rose Pysh	iou
129	Vermont Public Power Supply Authority	g	William J. Gallagher	muni
130	Westar Energy, Inc.	g	Shah Hossain, Grant Wilkerson	iou
131	Western Area Power Administration	t	JB Hite	fed
132	Western Area Power Administration	m	Jeffrey Ackerman	fed
133	Western Electricity Coordinating Council	t	Michelle Mizumori, Louise McCarren	at large
134	We Energies (Wisconsin Electric)	d	Linda Horn	iou
135	We Energies (Wisconsin Electric)	g	James R. Keller	iou
136	WPPI Energy	d	Mike Stuart	muni
137	Wisconsin Public Service Corporation	g	Christopher Plante, Charles W. Severance, Neal Balu	iou
138	Xcel Energy Inc.	m	David Lemmons	iou

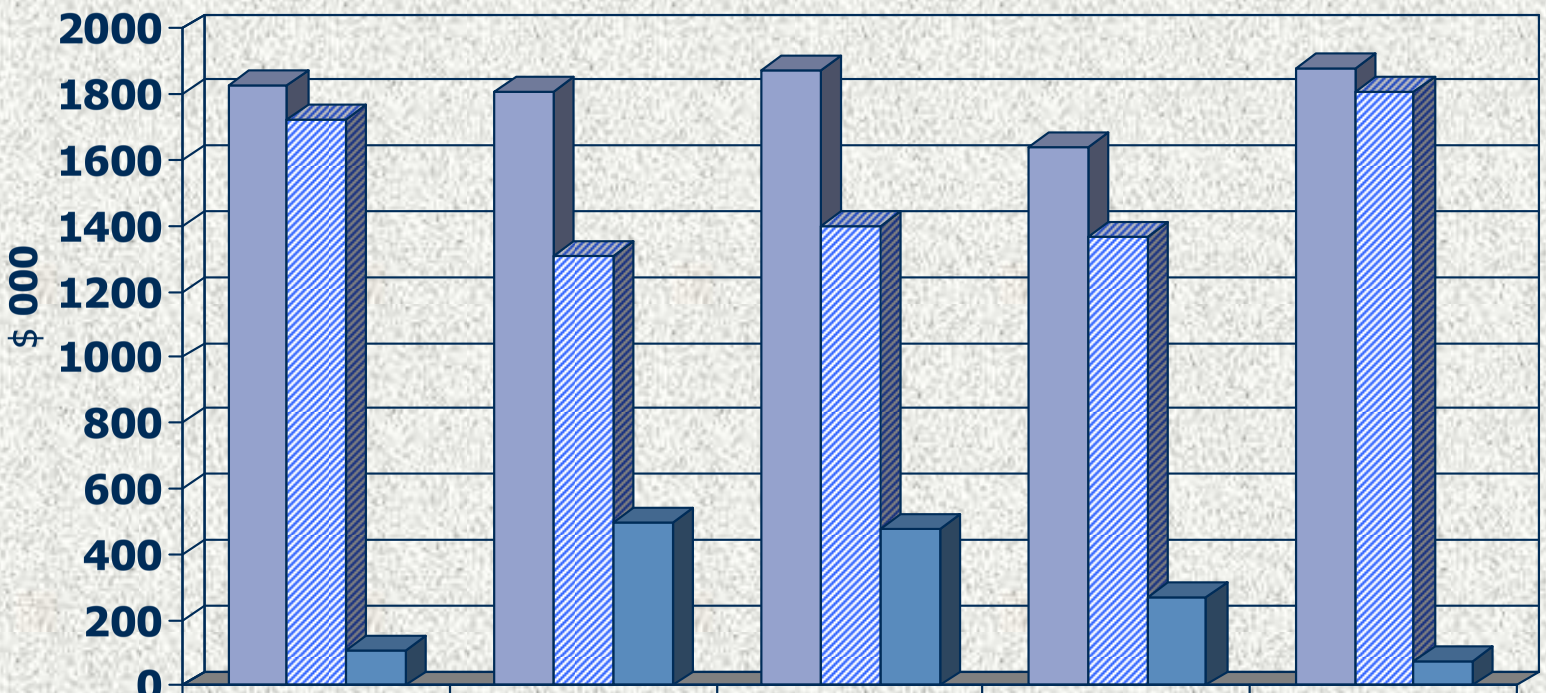
Retail Gas Quadrant Members:

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	Clarity Systems, Ltd.	s	Steve O'Neil	
7	Dominion Retail, Inc.	s	Richard A. Zollars	
8	Duke Energy Corp	d	Dan Jones	
9	Exelon Energy	s	Sheree M. Petrone	
10	International LNG Alliance	s	David Sweet	
11	Interstate Gas Supply	s	Ginger Fletcher	
12	Latitude Technologies	s	Leigh Spangler	
13	National Fuel Gas Distribution Corporation	d	Mike Novak	
14	Pennsylvania Office of Consumer Advocate	e	Tanya J. McCloskey	
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	
19	Wisconsin Public Service Corporation	d	Dennis Derricks, Ken Thiry, Les Nishida	

North American Energy Standards Board

Board of Directors Meeting – 12-10-09

As of September 30, 2009 Accrual Based Income and Expenses



	2009 Budget	YTD Sep Bud	YTD Sep Act	YTD Sep 08	YE Est. 2009
Income	1829	1807	1875	1637	1880
Expense	1721	1311	1400	1369	1806
Net Income	108	496	475	268	74

North American Energy Standards Board
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Home Page: www.naesb.org

MEMBERSHIP STATISTICS

- **December 31, 2008**: Membership in December is 327. Membership by quadrant is: 135 (WGQ), 23 (REQ), 19 (RGQ), 150 (WEQ). Year to date, we have had 25 new memberships (8 – WEQ, 3 – REQ, 1 – RGQ, 13 – WGQ) and 34 member resignations (7 – WGQ, 6 – REQ, 8 – RGQ, 13 – WEQ). We began the year with 336 members **(**127 (WGQ), 26 (REQ), 26 (RGQ), 157 (WEQ)).
- **January 31, 2009:** Membership in January is 322. Membership by quadrant is: 134 (WGQ), 23 (REQ), 18 (RGQ), 147 (WEQ). Year to date, we have had three new memberships (2 – WEQ, 0 – REQ, 0 – RGQ, 1 – WGQ) and nine member resignation (3 – WGQ, 0 – REQ, 1 – RGQ, 5- WEQ). We began the year with 327 members **(**135 (WGQ), 23 (REQ), 19 (RGQ), 150 (WEQ)). In March we had three new members join Golden Pass Pipeline, LLC (WGQ, Pipeline), Los Angeles Department of Water and Power (WEQ, Transmission, Muni/Coop), and Los Angeles Department of Water and Power (WEQ, Marketers/Brokers, Muni/Coop). We had eight member resignations Cascade Natural Gas Corporation (WGQ, LDC), UBS Energy LLC (WGQ, Services), Xcel Energy (RGQ, Distribution), Imperial Irrigation District (WEQ, Marketers/Brokers, Muni/Coop), PSEG Energy Resources and Trading LLC (WEQ, Marketers/Brokers, IOU), PSEG Power, LLC (WEQ, Generation, Merc), North Carolina Electric Municipal Power Agency #1 (WEQ, Marketers/Brokers, Muni/Coop), and ElectriCities of North Carolina (WEQ, Generation, Muni/Coop).
- **February 28, 2009:** Membership in February is 320. Membership by quadrant is: 133 (WGQ), 23 (REQ), 18 (RGQ), 146 (WEQ). Year to date, we have had three new memberships (2 – WEQ, 0 – REQ, 0 – RGQ, 1 – WGQ) and 10 member resignation (4 – WGQ, 0 – REQ, 1 – RGQ, 6- WEQ). We began the year with 327 members **(**135 (WGQ), 23 (REQ), 19 (RGQ), 150 (WEQ)). In February we had no new members join. We had two member resignations SUEZ Energy Marketing NA, Inc. (WEQ, Marketers/Brokers, Not IOU) and Westfield Gas & Electric Light Dept. (WGQ, LDC).
- **April 30, 2009:** Membership in April is 316. Membership by quadrant is: 130 (WGQ), 22 (REQ), 18 (RGQ), 146 (WEQ). Year to date, we have had five new memberships (4 – WEQ, 0 – REQ, 0 – RGQ, 1 – WGQ) and 16 member resignation (6 – WGQ, 1 – REQ, 1 – RGQ, 8- WEQ). We began the year with 327 members **(**135 (WGQ), 23 (REQ), 19 (RGQ), 150 (WEQ)). In April, we had two new members join, Alabama Municipal Electric Authority (WEQ, Distribution, Muni/Coop) and SunGard Consulting Services, LLC (WEQ, End User, at large). We had two member resignations Otter Tail Power Company (WEQ, Transmission, IOU) and Public Service Electric & Gas Company (REQ, Distribution).
- **May 31, 2009:** Membership in May is 311. Membership by quadrant is: 127 (WGQ), 21 (REQ), 18 (RGQ), 145 (WEQ). Year to date, we have had five new memberships (4 – WEQ, 0 – REQ, 0 – RGQ, 1 – WGQ) and 21 member resignation (9 – WGQ, 2 – REQ, 1 – RGQ, 9- WEQ). We began the year with 327 members **(**135 (WGQ), 23 (REQ), 19 (RGQ), 150 (WEQ)). In May, we had no new members join. We had five member resignations, Virginia Power Energy Marketing (WGQ, Services), Cheniere LNG Marketing (WGQ, Services), MidAmerican Energy Company (REQ, Distribution), Public Power Council (WEQ, Distribution, Muni/Coop) and NiSource, Inc. (WGQ, LDC).
- **June 30, 2009:** Membership in June is 310. Membership by quadrant is: 127 (WGQ), 22 (REQ), 19 (RGQ), 142 (WEQ). Year to date, we have had seven new memberships (4 – WEQ, 1 – REQ, 1 – RGQ, 1 – WGQ) and 24 member resignation (9 – WGQ, 3 – REQ, 1 – RGQ, 11- WEQ) and *one reclassification of membership for Sungard Consulting Services, LLC membership from WEQ, end user, at large to REQ, services on June 11, 2009*. We began the year with 327 members **(**135 (WGQ), 23 (REQ), 19 (RGQ), 150 (WEQ)). In June, we had two new members join Asgard Energy, LLC (RGQ, Supplier) and City of Houston (REQ, End Users). We had three member resignations, Exxon Mobil Gas Marketing (WEQ, Generation, Self Generator), Office of Public Advocate, State of Maine (REQ, End Users) and PacifiCorp (WEQ, Generation, IOU).

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Home Page: www.naesb.org

- **July 31, 2009:** Membership in June is 309. Membership by quadrant is: 128 (WGQ), 21 (REQ), 19 (RGQ), 141 (WEQ). Year to date, we have had nine new memberships (6 – WEQ, 1 – REQ, 1 – RGQ, 1 – WGQ) and 27 member resignation (8 – WGQ, 4 – REQ, 1 – RGQ, 14- WEQ (*Note: NiSource, Inc. was reinstated July 1, 2009 in the WGQ, LDC segment*)) and *one reclassification of membership for Sungard Consulting Services, LLC membership from WEQ, end user, at large to REQ, services on June 11, 2009*. We began the year with 327 members **(**135 (WGQ), 23 (REQ), 19 (RGQ), 150 (WEQ)). In July, we had two new member join, Arkansas Electric Cooperative Corporation (WEQ, Generation, Muni/Coop) and Shift Research, LLC (WEQ, End User, at large). We had four member resignations, Ameren Services (WEQ, Marketer/Broker, IOU), Consolidated Edison Company of NY (REQ, Distribution), Ontario Power Generation (WEQ, Generation, Merchant) and Portland General Electric (WEQ, Marketer/Broker, IOU).
- **August 31, 2009:** Membership in August is 309. Membership by quadrant is: 128 (WGQ), 21 (REQ), 19 (RGQ), 141 (WEQ). Year to date, we have had ten new memberships (6 – WEQ, 2 – REQ, 1 – RGQ, 1 – WGQ) and 28 member resignation (8 – WGQ, 5 – REQ, 1 – RGQ, 14- WEQ (*Note: NiSource, Inc. was reinstated July 1, 2009 in the WGQ, LDC segment*)) and *one reclassification of membership for Sungard Consulting Services, LLC membership from WEQ, end user, at large to REQ, services on June 11, 2009*. We began the year with 327 members **(**135 (WGQ), 23 (REQ), 19 (RGQ), 150 (WEQ)). In August, we had one new member join, Pennsylvania Public Utility Commission (REQ, End Users). We had one member resignation, Advantage IQ, Inc. (REQ, End Users).
- **September 30, 2009**: Membership in September is 309. Membership by quadrant is: 129 (WGQ), 20 (REQ), 19 (RGQ), 141 (WEQ). Year to date, we have had 14 new memberships (8 – WEQ, 2 – REQ, 2 – RGQ, 2 – WGQ) and 32 member resignation (8 – WGQ, 6 – REQ, 2 – RGQ, 16- WEQ (*Note: NiSource, Inc. was reinstated July 1, 2009 in the WGQ, LDC segment*)) and *one reclassification of membership for Sungard Consulting Services, LLC membership from WEQ, end user, at large to REQ, services on June 11, 2009*. We began the year with 327 members **(**135 (WGQ), 23 (REQ), 19 (RGQ), 150 (WEQ)). In September, we had four new member join, Clarity Systems, Ltd. (RGQ, Services) Manitoba Hydro (WEQ, Transmission, Fed/State/Prov.), Manitoba Hydro (WEQ, Marketers/Brokers, Fed/State/Prov.) and Noble Americas Corp. (WGQ, Pipeline) . We had four member resignations, Baltimore Gas & Electric Company (RGQ, Distribution), Direct Energy Business Services (REQ, Supplier), Edison Mission Marketing & Trading, Inc. (WEQ, Generation, Merchant), and Hydro One Networks (WEQ, Transmission, ITC).
- **October 31, 2009**: Membership in October is 304. Membership by quadrant is: 126 (WGQ), 19 (REQ), 19 (RGQ), 140 (WEQ). Year to date, we have had 14 new memberships (8 – WEQ, 2 – REQ, 2 – RGQ, 2 – WGQ) and 37 member resignation (11 – WGQ, 7 – REQ, 2 – RGQ, 17- WEQ (*Note: NiSource, Inc. was reinstated July 1, 2009 in the WGQ, LDC segment*)) and *one reclassification of membership for Sungard Consulting Services, LLC membership from WEQ, end user, at large to REQ, services on June 11, 2009*. We began the year with 327 members **(**135 (WGQ), 23 (REQ), 19 (RGQ), 150 (WEQ)). In October, we had no new member join. We had five member resignations, Husky Energy Marketing, Inc. (WGQ, Producer), Husky Gas Marketing, Inc. (WGQ, Producer), Husky Marketing and Supply Company (WGQ, End Users), Public Service Electric and Gas Company (WEQ, Distribution, IOU) and ICF International (REQ, Service Provider/Supplier).
- **November 30, 2009**: Membership in November is 299. Membership by quadrant is: 124 (WGQ), 18 (REQ), 19 (RGQ), 138 (WEQ). Year to date, we have had 15 new memberships (9 – WEQ, 2 – REQ, 2 – RGQ, 2 – WGQ) and 42 member resignation (13 – WGQ, 8 – REQ, 2 – RGQ, 19- WEQ (*Note: NiSource, Inc. was reinstated July 1, 2009 in the WGQ, LDC segment*)) and *one reclassification of membership for Sungard Consulting Services, LLC membership from WEQ, end user, at large to REQ, services on June 11, 2009*. We began the year with 327 members **(**135 (WGQ), 23 (REQ), 19 (RGQ), 150 (WEQ)). In November, we had one new member join, SonicWALL, Inc. (WEQ, End Users). We had six member resignations, Ozark Gas Transmission, LLC (WGQ, Pipeline), Qualedi, Inc. (WEQ, Generation, at large), Navigant Consulting, Inc. (WEQ, Marketers/Brokers, At-Large), Constellation NewEnergy, Inc. (REQ, Service Providers/Suppliers), Tennessee Valley Authority (WEQ, Distribution, Other) and SUEZ Energy Marketing NA, Inc. (WGQ, Services).

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MEETING STATISTICS

Month	Event	WEQ	WGQ	Retail	Joint	Board
January	Meetings/Hours	7/32	3/12.5	0	1/5	0
	Conf. Calls/Hours	8/22	4/7	5/11	5/9	0
February	Meeting/Hours	4/18	4/19	2/7	0	0
	Conf. Calls/Hours	5/16.5	0	0	1/2	1/2
March	Meeting/Hours	8/41	6/29.5	0	0	2/5
	Conf. Calls/Hours	6/21	2/5	5/13	2/4	0
April	Meeting/Hours	4/24	5/28	0	1/4	0
	Conf. Calls/Hours	6/21.5	6/14	2/7	4/8	0
May	Meeting/Hours	9/51	3/17	1/5	0	0
	Conf. Calls/Hours	4/14	3/6.5	2/3.5	4/8.5	1/2
June	Meeting/Hours	6/33	3/18	1/2	1/4	2.5
	Conf. Calls/Hours	6/23	2/4	4/4.5	3/5.5	0
July	Meeting/Hours	5/31	5/25.5	0	1/5	0
	Conf. Calls/Hours	4/16	1/1	1/5	6/12	0
August	Meeting/Hours	7/42	3/16	0	1/3.5	0
	Conf. Calls/Hours	2/9	0	1/2	1/3	0
September	Meeting/Hours	4/18	3/13	0/0	2/9	2/5
	Conf. Calls/Hours	5/19	1/2	1/1	7/10.5	0/0
October	Meeting/Hours	8/48	5/28	4/13.5	0	0
	Conf. Calls/Hours	5/14	1/2	1/1	9/18.5	0
November	Meeting/Hours	2/9	2/12	0	4/21	0
	Conf. Call/Hours	6/25	1/2	1/2	8/14	0
December	Meeting/Hours					
	Conf. Call/Hours					
Total	**Meetings/Hours**	**64/347**	**42/218.5**	**8/27.5**	**11/51.5**	**6/15**
	Conf. Calls/Hours	**57/201**	**21/43.5**	**23/50**	**50/95**	**2/4**

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PRODUCT ACCESS

- **Monthly:** The copyright policy and list of companies with authorized access to our standards is prepared monthly and posted on the NAESB web site. It includes all companies who have legal access to the NAESB standards.
- **December 1, 2009:** The copyright report as of December 1, 2009 is posted on the web site. Statistics for purchases of standards are maintained monthly and can be seen below as of November 30, 2009.

Purchases of NAESB Products as of November 30, 2009

Product	J	F	M	A	M	J	J	A	S	O	N	D	Total
NAESB Home Page Access for Password Protected Area ($3500)	2	0	1	2	0	0	2	1	0	1	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		**0**
Retail Base Contract for Sales/Purchase of Natural Gas/Electricity ($25/$50)	0	0	4	2	2	1	1	0	1	1	1		**13**
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	0		**1**
WGQ Base Contract for Sales/Purchases of Natural Gas/FTAA/OBA (Version 1.8) ($25/$50 ea)	13	9	3	16	6	2	1	4	10	6	9		**79**
WGQ Electronic CD-Rom of Standards Manuals (Versions 1.7 and older) ($150/$900)	0	4	0	1	1	2	0	0	0	0	0		**8**
WGQ Electronic CD-Rom of Standards Manuals (Version 1.8) ($150/$900)	10	2	1	3	7	3	0	1	3	7	1		**38**
WGQ Electronic CD-Rom of Standards Manuals (Version 1.9) ($150/$900)	0	0	0	0	0	0	0	0	0	15	0		**15**
WEQ Electronic CD-Rom of Standards Manuals (Versions 002 and older) ($150/$900)	3	0	0	0	0	0	0	0	0	0	0		**3**
WEQ Electronic CD-Rom of Standards Manuals (Version 002.1) ($150/$900)	0	0	0	1	1	0	2	0	0	0	0		**4**
NAESB WGQ Contracts Course/ eTariff Workshop CD-Rom	34	0	0	0	0	0	11	0	0	0	0		**45**
NAESB REQ/RGQ Model Business Practices CD-Rom (Versions 1.1 and older) ($150/$900)	0	0	0	0	0	0	0	1	0	0	0		**1**
Final Actions ($50)	0	0	0	0	2	0	1	0	3[1]	2[1]	1[1]		**9**
Total	**62**	**15**	**9**	**25**	**19**	**8**	**18**	**8**	**17**	**32**	**12**		**225**

[1] NAESB Final Action: WEQ 2008 Annual Plan Item 5(a) – NAESB Wholesale Electric Quadrant Demand Response M&V Standards

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FINANCIAL REPORT

- **YE December 31, 2008:** Total assets and total liabilities and equity for the yearend 2008 were $853,280.24. Accounts Receivables related to outstanding membership dues were $312,500, of which $282,500 were related to 2009 dues. $25,000 is 90 days or more in arrears, and $5,000 is 30 days or less in arrears. Our net income year end is a negative $118,025.20 (Expenses $1,794,011.95 and net revenue of $1,675,986.75). On a cash basis, we have an ending balance as of December 31 of $463,306.
- **2009 Budget:** On December 18, 2008, the Board approved the budget for 2009 at $1,829,143.48 (http://www.naesb.org/misc/budget_121808.pdf). The dues increases approved by the Board at the September 2008 meeting begin to take effect in 2009, ($5000 annual membership dues were increased to $6500). The full effect of the dues increase will not be seen until 2010, as dues for 2009 at $5000 extend into 2010 on a calendar basis for a significant portion of the members.

FINANCIAL REPORT YEAR-TO-DATE 2009 – ACCRUAL BASED, AS OF SEPTEMBER 30, 2009

BALANCE SHEET

Assets	
Current Assets	$473,105.50
Accounts Receivable	$345,500.00
Fixed Assets	$46,551.19
Other Assets	$10,277.94
Total Assets	$875,434.63
Liability & Equity	
Deferred Revenue	$721,666.66
Accounts Payable	$52,764.98
Retained Earnings	($374,185.91)
Net Income	$475,188.90
Total Liability and Equity	$875,434.63

INCOME AND EXPENSE

Income	$1,875,379.22
Expense	$1,400,190.32
Net Income	$475,188.90

INCOME AND EXPENSES TO BUDGET - YTD

2009 YTD Budget for Income	$1,806,519.32
Income Variance	$70,785.12
2009 YTD Budget for Expenses	$1,310,687.38
Expenses Variance	($89,502.94)

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YEAR END ANALYSIS

2009 Budget	$1,829,143.48
Revenue YTD Actual	$1,875,379.22
Remaining Revenue Estimated through YE	$4,669.76
Estimated YE Revenue	$1,880,048.98
Expenses YTD Actual	$1,400,190.32
Remaining Expenses Estimated through YE	$406,006.75
Estimated YE Expenses	$1,806,197.07
Difference – YE Revenue – YE Expenses	$73,851.91

CASH BASIS ANALYSIS

Beginning Balance 1-1-09	$463,306
Total Cash Income	$1,382,547
Total Costs	$1,378,613
Ending Balance	$467,240

ACCOUNTS RECEIVABLE ANALYSIS

Accounts Receivable	$345,500
Items more than 90 Days Outstanding	$19,500
Items more than 60 Days Outstanding	$13,500
Items 60 Days Outstanding	$52,000
Items 30 Days or less Outstanding	$260,500

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NORTH AMERICAN ENERGY STANDARDS BOARD

PROPOSED BUDGET FOR 2010

	YTD Actuals as of Sep 2009	2009YE Estimate	2009 Budget	2009YE - Budget Difference	Difference as % of 2009 Budget	2010 Proposed Budget	2010 Budget - 2009 YE Difference	Difference as % of 2010 Budget
Revenue (Income-Cost of Sales)								
Certification	$0.00		$10,000.00			$3,500.00		
Home Page & Access Fee	$28,592.32		$10,500.00			$30,000.00		
Interest Income	$144.95		$330.00			$200.00		
Membership Dues	$1,871,333.33		$1,818,813.48			$2,065,333.00		
Membership Forfeited	-$102,166.66		-$130,000.00			-$149,000.00		
Standards/Contracts Sales	$55,575.28		$49,500.00			$45,000.00		
Workshops/Seminars	$21,900.00		$70,000.00			$61,900.00		
Total Revenue	$1,875,379.22	$1,880,048.98	$1,829,143.48	$50,905.50	2.78%	$2,056,933.00	$176,884.02	8.60%
Expense								
Salaries, Benefits, Taxes	$714,645.44		$900,508.79			$1,026,496.00		
Office Rents & Parking	$111,015.56		$141,600.00			$140,000.00		
Office Expenses	$63,258.25		$82,200.00			$86,940.00		
Telecommunications	$49,448.44		$84,000.00			$84,000.00		

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NORTH AMERICAN ENERGY STANDARDS BOARD

PROPOSED BUDGET FOR 2010

	YTD Actuals as of Sep 2009	2009YE Estimate	2009 Budget	2009YE - Budget Difference	Difference as % of 2009 Budget	2010 Proposed Budget	2010 Budget - 2009 YE Difference	Difference as % of 2010 Budget
Travel and Meetings	$314,182.63		$300,000.00			$350,000.00		
Publications/Mailings/Printing	$36,567.96		$63,600.00			$65,200.00		
Outside Services	$104,074.30		$140,000.00			$174,074.30		
Insurance, Taxes, Fees	$6,997.74		$8,818.00			$9,067.00		
Total Expense	$1,400,190.32	$1,806,197.07	$1,720,726.79	$85,470.28	4.97%	$1,935,777.30	$129,580.23	6.69%
Net Income	**$475,188.90**	**$73,851.91**	**$108,416.69**	**-$34,564.78**	**-31.88%**	**$121,155.70**	**$47,303.79**	**39.04%**

Retained Earnings History and Estimates for 2009/2010		
	2005	**($371,826)**
	2006	**($276,538)**
	2007	**($256,161)**
	2008	**($374,186)**
	2009 E	**($300,334)**
	2010 E	**($179,178)**

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Assumptions in 2010 Budget:

(1) The new segment for the WEQ is implemented in 2010 and the WEQ sees 12 new members as a result.

(2) A new staff member is added in 2010.

(3) Courses are begun in 2010 for the WEQ standards.

(4) That an office move will take place in 2010 that provides office space at the rate provided for 2009 with moving expenses incorporated into the outside services category.

(5) Travel and meeting expenses will slightly decrease from 2009, with a heavier reliance on conference calling to reflect industry trends to reduce travel.

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December 2, 2009

TO: NAESB Resources committee

FROM: Rae McQuade, NAESB President and COO

RE: Membership Analysis, Vacancies on the Board and EC, Membership Prospects – December 2, 2009

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 2008 and 2009
(4) Member Resignations in 2008 and 2009
(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	ackerman@wapa.gov
WEQ	Scott Brown, Exelon Corporation	202-347-8096	scott.brown@exeloncorp.com
WGQ	Adrian Chapman, Washington Gas	703-750-7677	achapman@washgas.com
WEQ	Michael Desselle, Southwest Power Pool	501-614-3206	mdesselle@spp.org
WEQ	Bruce Ellsworth, New York State Reliability Council	603-746-3447	ellsworth@conket.com
WGQ	Bill Hebenstreit, Goodrich Petroleum Company, LLC	832-399-3180	bill_heben@hotmail.com
WEQ	Jesse Hurley, Shift Research, Inc.	774-262-9093	jesse.hurley@shiftresearch.com
REQ	Ruth Kiselewich, Baltimore Gas & Electric	410-470-1361	ruth.c.kiselewich@bge.com
REQ	David Koogler, Dominion Virginia Power	804-771-3429	david.koogler@dom.com
RGQ	Greg Lander, Commerce Energy Group	978-535-7500	glander@skippingstone.com
WGQ	Mike Novak, National Fuel Gas Distribution	716-857-7884	novakm@natfuel.com
WGQ	Lori-Lynn Pennock, Salt River Project	602-236-4360	lori-lynn.pennock@srpnet.com
WGQ	Keith Sappenfield, EnCana Oil & Gas (USA), Inc.	720-876-3693	keith.sappenfield@encana.com
WGQ	Jim Templeton, Comprehensive Energy Services	713-759-6999	jrtemplton@aol.com
WEQ	Roy True, Aces Power Marketing	317-344-7203	royt@acespower.com

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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
	American PowerNet	Office	David R. Butsack – sent membership information 7/22/09. Not joining at this time.	D. Rager
✓	Asgard Energy, LLC	Office	Rhett C. Shumway – received application 5/21/2009, ***Has Joined***	D. Rager
	ATC	S. Brown	Burt Garvin – Scott will approach	S. Brown
	BPZ Energy, Inc.	Office	Xavier A. Suniga – sent membership information 7/30/09. Not joining at this time.	D. Rager
✓	City of Houston	R. McQuade	Jim Cargas – contacted our office 5/5/2009, ***Has Joined***	D. Rager
✓	Clarity Systems, Ltd.	Office	Steve O'Neill – contacted our office, ***Has Joined***	D. Rager
	Comverge	S. Brown/R. True	S. Brown and R. True will follow-up with Norm Brownell	S. Brown, R. True
	C-Power	S. Brown	Mike Gordon – Scott will approach.	S. Brown
	Enerex	J. Booe	Eric Gunther – Jonathan met with Eric - sent follow-up materials 12/02/09	J. Booe
	GreenSmith Energy Management Systems		Dr. Chen-Young – sent information on 12/3/08 as requested by R. McQuade	R. McQuade
	Gridwise Alliance	R. McQuade	Karen Hamilton – Rae meeting on 04/02/2009 – not joining at this time.	R. McQuade
	Honeywell	J. Booe	Dave Kaufman – sent information and purchased WEQ and REQ M&V and DR standards – 11/30/09	J. Booe
	International Transmission Company (ITC)	S. Brown	Terry Harvill – Scott met with Terry on July 8	S. Brown
	John Deere Wind	R. True	Roy will send Denise contact information for John Harvey.	D. Rager
✓	Manitoba Hydro (WEQ, Marketer/Broker)	Office	Received application to join , ***Has Joined***	D. Rager
✓	Manitoba Hydro (WEQ, Transmission)	Office	Received application to join , ***Has Joined***	D. Rager

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Attachment 2a

NAESB Membership Prospects – Short Term, Individual Companies and Organizations

	Membership Prospects	Source	Contact/Notes	Assignment
	National Institute of Standards and Technology (NIST)	R. McQuade/J. Booe	Dr. David A. Wollman – sent membership information 4/15/2009, D. Rager follow-up by phone 5/25/2009 and by email 5/26/2009, reply on 5/26/2009 will run by his lawyers and get back with Denise with any questions. Jonathan called and no word.	D. Rager/J. Booe
	NexEra Energy Power Marketing, LLC	Office	Angela Ewers – sent membership information 8/4/09. Not joining at this time.	D. Rager
✓	Noble Americas Corp.	Office	Joseph Limone – sent membership information - ***Has Joined***	D. Rager
	Novellus	Office	Marty Collins – sent membership information 7/28/09. Not joining at this time.	D. Rager
	Paloma Business Solutions	R. McQuade	John McNevin - sent membership information 4/3/2009, D. Rager follow-up 4/13/2009	D. Rager
✓	Pennsylvania Public Utility Commission	R. McQuade	Annunciata Marino and Robert F. Wilson – sent membership information 4/3/2009 – ***Has joined***	D. Rager
	PNE Wind USA, Inc.	M. Desselle/R. McQudade	Edmundo O. Toro – Rae sent information 8/13/09. Sent follow-up on 12/02/09 via email.	R. McQuade
	RWE Supply & Trading GmbH (Germany)	Office	Isolde M. Hemmer – sent membership information 6/22/09. Follow-up 8/27/09 under review.	D. Rager
✓	Shift Research, LLC	R. McQuade	Jesse Hurley – ***joined July 2009 also serving on the WEQ Board.***	D. Rager
	Solar Alliance, The	S. Brown	Carrie Cullen Hitt – Scott will contact with info provided by Rae. Carrie is presenting to her Board.	S. Brown
✓	SonicWALL, Inc.	J. Hurley	Boris Yanovsky – J. Hurley made contact in Sept – ***Has joined***	J. Hurley
	TransAlta Energy Marketing Canada	D. Rager	Sterling Koch – submitted application 11/18/09, **NOT PAID**	D. Rager

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Attachment 2b

NAESB Membership Prospects – Wind Generators

Membership Prospects	Source	Contact/Notes	Assignment
Acciona	Resource Committee		S. Brown, R. McQuade, M. Desselle
American Wind Energy Assoc.		*Has Joined*	R. McQuade, M. Desselle
First Wind	Resource Committee	Kurt Adams	S. Brown
Gamesa	Resource Committee		S. Brown
Horizon	Resource Committee		S. Brown, R. McQuade, M. Desselle
Iberdola	Resource Committee		S. Brown, R. McQuade, M. Desselle
John Deere Wind	Resource Committee	John Harvey	R. True
PNE Wind USA, Inc.	M. Desselle/R. McQuade	Edmundo O. Toro – Rae sent information 8/13/09.	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

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Attachment 2d

NAESB Membership Prospects – Demand Side Management – Energy Efficiency

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

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NAESB Membership Prospects – Demand Side Management – Energy Efficiency

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

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NAESB Membership Prospects – Demand Side Management – Energy Efficiency

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

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NAESB Membership Prospects – Demand Side Management – Energy Efficiency

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

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NAESB Membership Prospects – Demand Side Management – Energy Efficiency

Membership Prospects	Source	Contact/Notes	Assignment
Southern California Gas Company	Participant DSM	Lee Stewart	
Southwest Energy Efficiency Alliance	Participant DSM	Howard Geller	
Summit Blue Consulting	Participant DSM	Mark Klos, Daniel Violette, Kevein Coney	
Synapse Energy Economics	Participant DSM	Paul Peterson	
TecMarket Works	Participant DSM	Nick Hall	
The Gee Strategies Group	Participant DSM	Robert W. Gee	
The Regulatory Assistance Project	Participant DSM	Richard Sedano	
TXU Energy	Participant DSM	Mack Wallace	
U.S. Environmental Protection Agency	Participant DSM	Stacy Angel, Nikolaas Dietsch	
U.S. Demand Response Coordinating Committee	Participant DSM	Dan Delurey	
UISOL	Participant DSM	Scott Coe	
University of Texas MD Anderson Cancer Center	Participant DSM	Ron Russell	
VA State Corporation Commission	Participant DSM	David R. Eichenlaub	
Vermont Energy Investment Corp.	Participant DSM	Bolleen Orsburn	
Vermont Public Service Board	Participant DSM	Pam Stonier	
Virginia State Corporation Commission	Participant DSM	Diane Jenkins	
Warren Energy engineering, LLC	Participant DSM	Kevin Warren	

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Attachment 2e

NAESB Membership Prospects – Groups

Membership Prospects	Source	Contact/Notes	Assignment
End Users	Resources Committee	Should hold meetings with john Anderson for ideas after we begin the sessions for ISOs and RTOs.	S Brown/M Desselle
ISOs and RTOs (ISO-NE, NYISO, AESO, IESO, CAISO, PJM)	Board action	Letter sent in April asking for membership and participation. They responded in June with interest. We have set up a meeting to discuss participation and membership on August 24 in Washington, D.C.	S Brown/M Desselle
California ISO (CASIO) – Contact: Yakout Mansour		*Has Joined*	
Independent Electricity System Operator (IESO) – Contacts: Ron Falsetti and David Short		*Has Joined*	
New York Independent System Operator, Inc. (NYISO) – Contacts: Michael Calimano and Mark S. Lynch		*Has Joined*	
TranServ International, Inc. – Contact: Kevin Burns		*Has Joined*	
PJM Interconnection – Contact: Alicia Daugherty		*Has Joined*	
Alberta Electric System Operator – Contact: Diana Pommen		*Has Joined*	
ISO New England, Inc. – Contact: Matthew F. Goldberg		*Has Joined*	
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		
Solar Trade Association	Resource Committee	Mack Thompson	
Solar Alliance, The	Resource Committee	CarrieCullen Hitt	

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NAESB Membership Prospects – Groups

Membership Prospects	Source	Contact/Notes	Assignment
Solar Electric Power Association (SEPA)	Resource Committee	Julia Hamm, Executive Director	

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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		
Avista Utilities	EEI		
Big Rivers Electric Corp.	NERC		
Black Hills Corporation - Black Hills Power	**EEI**	*Has Joined*	
British Columbia Transmission Corporation	**NERC**	*Has Joined*	
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		
El Paso Electric Company	EEI		M. Desselle
Electric Energy, Inc.	EEI		
Electric Power Research Institute	NERC		
Electric Power Supply Association	NERC	*Has Joined*	
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		
GridAmerica LLC	NERC		
Hawaiian Electric Industries, Inc. - Hawaii Electric Light Co., Inc. - Maui Electric Co., Ltd.	EEI		
Huntsville Utilities	NERC		
InterGen	EPSA		
Kansas City Board of Public Utilities	NERC		
Manitoba Hydro	NERC		
MDU Resources Group, Inc. - Montana-Dakota Utilities Co.	EEI		

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NAESB Membership Prospects – Long Term

Membership Prospects	Source	Contact/Notes	Assignment
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		
Nebraska Public Power District	NERC		
Northeast Power Coordinating Council			M Desselle
Northern Star Generation Co. -- NSTAR	EPSA-EEI		
NorthWestern Corporation - NorthWestern Energy	EEI	*Has Joined*	
Nuclear Management Company, LLC	EEI		
OGE Energy Corporation - OG&E Electric Services	**EEI - NERC**	*Has Joined*	M. Desselle
Ohio Public Utilities Commission	NERC		
Ohio Valley Electric Corporation	EEI		
Omaha Public Power District	NERC		
Ontario Energy Board	NERC		
Pennsylvania Public Utility Commission	NERC	*Has Joined*	
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		

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NAESB Membership Prospects – Long Term

Membership Prospects	Source	Contact/Notes	Assignment
Utah Public Service Commission	NERC		
Vermont Electric Power Company, Inc.	EEI		
Westar Energy Inc.	**EEI**	*Has Joined*	M. Desselle
Wheelabrator Technologies Inc.	EPSA		
Wolf Creek Nuclear Operating Corporation	EEI		

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Attachment 2g

NAESB Membership Prospects – Smart Grid (Technology Companies)

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 Sytems, Inc.	S. Brown	D. Rager - sent letter with membership information 4/23/2009	D. Rager
Akuacom	**Participant SGSTF**	Edward Koch	
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
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
Ceelox, Inc.	S. Brown	D. Rager - sent letter with	D. Rager

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NAESB Membership Prospects – Smart Grid (Technology Companies)

Membership Prospects	Source	Contact/Notes	Assignment
		membership information 4/23/2009	
CipherOptics	S. Brown	D. Rager - sent letter with membership information 4/23/2009	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. (Cybectec)	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
EnerVision, Inc.	S. Brown	D. Rager - sent letter with membership information 4/23/2009	D. Rager
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	D. Rager

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Membership Prospects	Source	Contact/Notes	Assignment
		4/23/2009	
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
Fix Protocol	**Participant SGSTF**	Kathleen Callahan, Courtney Doyle, Jim Northey, Ryan Pierce	
General Electric	**Participant SGSTF**	Charles Smith	
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
Gridpoint	**Participant SGSTF**	R. Scott Crowder, III, Stephen Haber	
Gridwise Architecture Council	**Participant SGSTF**	Dr. Kenneth P. Wacks	
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 4/23/2009	D. Rager
Industry Compliance Institute	S. Brown	D. Rager - sent letter with membership information 4/23/2009	D. Rager
Intellibind	S. Brown	D. Rager - sent letter with	D. Rager

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NAESB Membership Prospects – Smart Grid (Technology Companies)

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

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NAESB Membership Prospects – Smart Grid (Technology Companies)

Membership Prospects	Source	Contact/Notes	Assignment
National Institute of Standards and Technology (NIST)	**Participant SGSTF**	David Holmberg	J. Booe
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
Pacific Northwest National Laboratory	**Participant SGSTF**	Steve Widergren	
Policy Technologies International, Inc.	S. Brown	D. Rager - sent letter with membership information 4/24/2009	D. Rager
Portland Gas and Electric	**Participant SGSTF**	Albert Chiu	
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 membership information 4/24/2009	D. Rager
Quality Plus Engineering, LLC	S. Brown	Greg Hutchins - D. Rager - sent letter with membership information 4/24/2009	D. Rager

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

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Attachment 2g

NAESB Membership Prospects – Smart Grid (Technology Companies)

Membership Prospects	Source	Contact/Notes	Assignment
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
University of North Carolina	**Participant SGSTF**	Toby Considine	
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

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NAESB Membership Prospects – Smart Grid (Technology Companies)

Membership Prospects	Source	Contact/Notes	Assignment
Vidient	S. Brown	Frank Pao - D. Rager - sent letter with membership information 4/29/2009	D. Rager
Vigilant Power Solutions, Inc.	S. Brown	D. Rager - sent letter with membership information 4/29/2009	D. Rager
Verisign	S. Brown	D. Rager - sent letter with membership information 4/29/2009	D. Rager
Xtensible Solutions	**Participant SGSTF**	Joe Zhou	
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 2008

Quadrant	Segment	Contact and Company	Reason Joined	Month Joined
RGQ	End Users	Advantage IQ, Inc. Contact: Suzanne Figy	Participation	September
WEQ	Generation	American Wind Energy Association Contact: Robert Gramlich	Participation	October
WEQ	Transmission	Black Hills Corporation Contact: Larry D. Williamson	Participation	August
WEQ	Transmission	British Columbia Transmission Corporation Contact: Janet Fraser	Participation	January
WGQ	Pipeline	Cheniere Pipeline Company Contact: Whit Scott	Participation	December
WGQ	Producer	Devon Energy Corporation Contact: Bill Green	Participation	October
WEQ	Generation	Entegra Power Group, LLC Contact: Rebecca Turner	Participation	January
WGQ	Services	EnergySouth Midstream, Inc. Contact: Russell Murrell	Participation	January
WEQ	End Users	EnerNOC, Inc. Contact: Aaron Breidenbaugh	Participation	December
WGQ	Pipeline	Equitrans, LP Contact: Joseph M. Dawley	Participation	December
WGQ	Producer	Foothills Energy Ventures, LLC Contact: Marty Patterson	Participation	January
WGQ	Services	Goodrich Petroleum Company, LLC Contact: Bill Hebenstreit	Participation	July
WGQ	Producer	Husky Energy Marketing, Inc. Contact: Jan Bindon	Participation	August
WGQ	End Users	Husky Marketing and Supply Company Contact: Jan Bindon	Participation	August
WGQ	Producer	Husky Gas Marketing, Inc. Contact: Jan Bindon	Participation	August
REQ	Services	ICF International Contact: David Pickles	Participation	June
WGQ	Services	JP Morgan Ventures Energy Corp Contact: Paul Tramonte	Participation	October
WGQ	Producer	Noble Energy, Inc. Contact: Richard D. Smith	Participation	July
REQ	Supplier	North Carolina Advanced Energy Corporation Contact: Robert K. Koger	Participation	July

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New Members since January 2008

WGQ	Services	OGE Energy Resources, Inc. Contact: Cary Metz	Participation	February
WEQ	Distribution	Public Power Council Contact: Nancy Baker	Participation	February
WEQ	Transmission	San Diego Gas & Electric Company Contact: Patricia vanMidde	Participation	January
WEQ	Transmission	Santee Cooper Contact: Tom Abrams	Participation	February
WEQ	Transmission	United Illuminating Company, The Contact: Rose Pysh	Participation	December
RGQ	Supplier	Vectren Retail, LOC Contact: Tami Wilson	Participation	January
WGQ	Services	Vega Energy Partners, Ltd. ***(rejoined)*** Contact: Lori Leeder	Participation	May
WEQ	Generation	Westar Energy, Inc. Contact: Shah Hossain	Participation	June

****** Membership dues not yet received.

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New Members since January 2009

Quadrant	Segment	Contact and Company	Reason Joined	Month Joined
WEQ	Distribution	Alabama Municipal Electric Authority Contact: Ray Phillips	Participation	April
WEQ	Generation	Arkansas Electric Coopeartive Corporation Contact: Ricky Bittle	Participation	July
RGQ	Supplier	Asgard Energy, LLC Contact: Rhett C. Shumway	Participation	June
REQ	End Users	City of Houston Contact: James P. Cargas	Participation	June
RGQ	Services	Clarity Systems, Ltd. Contact: Steve O'Neil	Participation	September
WGQ	Pipeline	Golden Pass Pipeline, LLC Contact: Susan Braden	Participation	January
WEQ	Marketer	Los Angeles Department of Water and Power Contact: Michael S. Webster	Participation	January
WEQ	Transmission	Los Angeles Department of Water and Power Contact: Mohammed Johar Beshir	Participation	January
WEQ	Transmission	Manitoba Hydro Contact: Blaine Poff	Participation	July
WEQ	Marketers	Manitoba Hydro Contact: Blaine Poff	Participation	July
WGQ	Producer	Noble Americas Corp. Contact: Boris Yanovsky	Participation	September
REQ	End Users	Pennsylvania Public Utility Commission Contacts: Robert F. Wilson and Annunciata E. Marino	Participation	August
WEQ	End Users	Shift Research, LLC Contact: Jesse D. Hurley	Participation	July
WEQ	End Users	SonicWALL, Inc. Contact: Boris Yanovsky	Participation	October
WEQ	End Users	SunGard Consulting Services, LLC Contact: Austin Morris	Participation	April

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North American Energy Standards Board
Member Resignations in 2008

Quadrant	Segment	Contact and Company	Reason Resigned	Month Resigned
WEQ	Transmission	Allegheny Energy, Inc.	Company decision to not renew	October
WEQ	Transmission	American Transmission Company LLC	Company decision to not renew due to resources	October
RGQ	Supplier	Center Point Energy Minnegasco	Contact (Andrea Newman) left company – new contact Tracy Bridge did not want to renew	February
WEQ	End User	ChevronTexaco Energy Research	No reason given for non renewal	March
WEQ	Marketer/Broker	Conective Energy Supply, Inc.	Company decision to only keep “one” active membership	February
WEQ	Generation	Constellation Energy	Company decision to not renew	June
RGQ	Services	Energy Services Group, Inc.	Company decision to not renew due to resources	February
WGQ	Services	EnergySouth Midstream, Inc.	Company acquired by Sempra Energy	October
WGQ	LDC	Equitable Gas Company	Company decision to not renew due to resources	July
WEQ	Transmission	Florida Reliability Coordinating Council	No reason given for non renewal	January
WGQ	End User	Florida Reliability Coordinating Council	No reason given for non renewal	April
REQ	Distribution	Gulf Power Company	Company decision to not renew due to resources	June
WGQ	Pipeline	H S Resources, Inc.	No reason given for non renewal	February
WEQ	Transmission	Imperial Irrigation District	Already participating in other segment	April
RGQ	End User	Indiana Office of Utility Consumers	Company decision to not renew due to resources	April
REQ	Services	ista North America	Company decision to not renew due to resources	September
WGQ	Services	J.P. Morgan Ventures Energy	No reason given for non renewal	April
WEQ	Marketers/Brokers	Luminant	No reason given for non renewal	December
WEQ	End User	Maryland People’s Counsel	No reason given for non renewal	June
WEQ	Transmission	Michigan Electric Transmission Company	No reason given for non renewal	April
REQ	Distribution	Mississippi Power Company	Company decision to not renew due to resources	June
WGQ	LDC	National Grid USA	Company decision to not renew due to resources	September

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WEQ	End Users	New York State Department of Public Service	No reason given for non renewal	December
RGQ	Distribution	Niagara Mohawk	Company decision to not renew due to resources	April
RGQ	Distribution	Northern Indiana Public Service Company (NiSource, Inc.)	No reason given for non renewal	December
RGQ	End User	Ohio Consumers Council	Company decision to not renew due to resources	April
WEQ	End User	Ohio Consumers Council	Company decision to not renew due to resources	February
REQ	End User	Ohio Consumers Council	Company decision to not renew due to resources	April
WEQ	Transmission	Oncor	Company decision to not renew due to resources	May
RGQ	Distributor	Public Service Electric & Gas	No reason given for non renewal	February
WEQ	Generation	Sacramento Municipal Utility District	Company decision to only have “1” membership in NAESB	July
WEQ	Distribution	Salt River Project Agricultural	Company decision to only have “2” memberships in NAESB	September
REQ	Supplier	TXU Energy Retail	Non renewal	September
RGQ	Supplier	UBS Energy LLC	No reason given for non renewal	April
REQ	End User	Wal-Mart Stores, Inc.	No reason given for non renewal	April

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Quadrant	Segment	Contact and Company	Reason Resigned	Month Resigned
REQ	End Users	Advantage IQ, Inc.	No reason given for non renewal	August
WEQ	Marketers/Brokers	Ameren Services	No reason given for non renewal	July
RGQ	Distribution	Baltimore Gas & Electric Company	Company decision to not renew – only keeping two memberships	September
WGQ	LDC	Cascade Natural Gas Corporation	Company decision to not renew due to resources *(May reconsider later in year)*	January
WGQ	Pipeline	Chandeleur Pipe Line Co	No reason given for non renewal	March
WGQ	Services	Cheniere LNG Marketing	May reconsider in June 2009	May
REQ	Distribution	Consolidated Edison Company of NY	Non-renewal due to budget	July
REQ	Services	Constellation NewEnergy, Inc.	Non-renewal due to budget	November
REQ	Supplier	Direct Energy Business Services	No reason given for non renewal	September
WEQ	Generation	Edison Mission Marketing & Trading, Inc.	No reason given for non renewal	September
WEQ	Generation	ElectriCities of North Carolina (North Carolina Eastern Municipal Power Agency)	Company decision to not renew – only keeping one membership	January
WEQ	Distribution	Exelon Corporation – PECO Energy	No reason given for non renewal	March
WEQ	Generation	Exxon Mobil Gas Marketing	Company decision to not renew – only keeping one membership	June
WGQ	Services	Hess Corporation	No reason given for non renewal	March
WGQ	Producer	Husky Energy Marekting, Inc.	Company decision to not renew – purchased contract	October
WGQ	Producer	Husky Gas Marketing, Inc.	Company decision to not renew – purchased contract	October
WGQ	End Users	Husy Marketing and Supply Company	Company decision to not renew – purchased contract	October
WEQ	Transmission	Hydro One Networks	No reason given for non renewal	September
REQ	Serv Prov/Supp	ICF International	No reason given for non renewal	October
WEQ	Marketers/Brokers	Imperial Irrigation District	Company decision to not renew – only keeping one membership	January
WGQ	Services	Lehman Brothers Commodity Services, Inc.	No reason given for non renewal	March
REQ	Distribution	MidAmerican Energy Company	Company decision to not renew – only keeping one membership	May
WEQ	Marketers/Brokers	Navigant Consulting, Inc.	Non-renewal due to budget	November
WEQ	Marketers/Brokers	North Carolina Electric Municipal Power Agency #1	Company decision to not renew – only keeping one membership	January
REQ	End Users	Office of Public Advocate, State of Maine	No reason given for non renewal	June

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Member Resignations in 2009

WEQ	Generation	Ontario Power Generation	Non-renewal due to budget	July
WEQ	Transmission	Otter Tail Power Company	No reason given for non renewal	April
WGQ	Pipeline	Ozark Gas Transmission, LLC	No reason given for non renewal	October
WEQ	Generation	PacifiCorp	Company decision to not renew – only keeping two memberships	June
WEQ	Marketers/Brokers	Portland General Electric	Company decision to not renew – only keeping one membership	July
WEQ	Marketers/Brokers	PSEG Energy Resources and Trade LLC	No reason given for non renewal	January
WEQ	Generation	PSEG Power LLC	No reason given for non renewal	January
WEQ	Distribution	Public Power Council	No reason given for non renewal	May
REQ	Distribution	Public Service Electric & Gas Company	No reason given for non renewal	April
WEQ	Distribution	Public Service Electric and Gas Company	Company decision to not renew – only keeping two memberships	October
WEQ	Generation	Qualedi, Inc.	No reason given for non renewal	November
WEQ	Marketers/Brokers	SUEZ Energy Marketing NA, Inc.	No reason given for non renewal	February
WGQ	Services	SUEZ Energy Marekting NA, Inc.	No reason given for non renewal	November
WEQ	Distribution	Tennessee Valley Authority	Company decision to not renew – only keeping four memberships	November
WGQ	Services	UBS Energy LLC	No reason given for non renewal	January
WGQ	Services	Virginia Power Energy Marketing	No reason given for non renewal	May
WGQ	LDC	Westfield Gas & Electric Light Dept.	No reason given for non renewal	February
RGQ	Distribution	Xcel Energy	Company decision to not renew due to resources *(May reconsider later in 2010)*	January

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Attachment 5

North American Energy Standards Board and Executive Committee Vacancies as of December 2, 2009

Vacant Seats	Quadrant	Seat	Segment	Subsegment
5	Retail Electric	Board (2)	End Users/Public Agencies (2)	
		Executive Committee (3)	End Users/Public Agencies (3)	
15	Retail Gas	Board (7)	Distributors (2) End Users/Public Agencies (4) Service Providers/ Suppliers (1)	
		Executive Committee (8)	Distributors (1) End User /Public Agencies (4) Service Providers/ Suppliers (3)	
14	Wholesale Electric	Board (6)	Distribution/Load Serving Entities (LSE) (2)	IOU (at large) (1) Competitive Retailer (at large) 1
			Transmission (1)	IOU (at large) (1)
			Generation (1)	Merchant (at large) (1)
			End User (2)	Commercial/Residential (at large) (1) Large Industrial (at large) (1)
		Executive Committee (7)	End User (4)	Large Industrial (at large) (1) Commercial/Residential (at large) (1) End Use (In other segments) (at large) (1) Large Industrial (at large) (1)
			Distribution/LSE (1)	Muni/Coop (at large) (1)
			Marketers/Brokers (1)	Not IOU Affiliated (at large) (1)
2	Wholesale Gas	Board (1)	Services (1)	
		Executive Committee (1)	LDC (1)	

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Attachment 6

Membership Roster Sorted by Company

Quadrant	Segment	Sub-Segment	Member Company	Contact	State / Province
WGQ	s		8760, Inc.	Jim Buccigross	AL
WEQ	m	muni	ACES Power Marketing LLC	Roy J. True, Amadou Fall	IN
RGQ	d		AGL Resources Inc.	Gregory Becker	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, Henry Ren	ALB
RGQ	s		Allegro Development	Kimberly Page	TX
WGQ	pl		Alliance Pipeline LP	Jim Goldmann, Cathie Legge, Brian Troicuk	ONT
WGQ	l		Ameren Corporation	Scott Glaeser, Ken Dothage, Jim Massmann	MO
REQ	u		Ameren Services Company	Patrick Eynon	MO
WEQ	d	iou	American Electric Power Service Corp.	Barbara Radous, Joseph Hartsoe, Phil Cox	OH
WEQ	m	muni	American Municipal Power, Inc.	Mack Thompson, Chris Norton	OH
RGQ	d		American Public Gas Association (APGA)	Alonzo Weaver, Joe Stengel	PA
WEQ	d	muni	American Public Power Association	Allen Mosher	DC
WEQ	g	merc	American Wind Energy Association	Robert Gramlich	DC
WGQ	s		Anadarko Energy Services Company	John Bretz, Steven Abbey	TX
WGQ	pl		ANR Pipeline Company	Sandy Meyers, Joseph E. Polland, Rene Staeb, Debbie Forth, Carol Wehlmann	ALB
WGQ	pr		Apache Corporation	Maribeth Bedevian	TX
WEQ	m	iou	APS Marketing and Trading	Steve Norris	AZ
WEQ	t	iou	Arizona Public Service Company	Mark W. Hackney	AZ
WGQ	e		Arizona Public Service Company	Tom Carlson, Kelly Daly	AZ
WEQ	g	muni	Arkansas Electric Cooperative Corporation	Ricky Bittle	AR
RGQ	s		Asgard Energy, LLC	Rhett C. Shumway	CO
WGQ	pl		Atmos Energy	Steve Easley	TX
WGQ	s		Ballard Natural Gas, LLC	Susan Thibodeaux	TX
REQ	u		Baltimore Gas & Electric Co.	Ruth Kiselewich, Phil Precht	MD
WGQ	l		Baltimore Gas & Electric Co.	Phil Precht, Ron Jennings	MD
WGQ	s		Barclays Bank PLC	Guy Kern-Martin	NY
WEQ	g	muni	Basin Electric Power Cooperative	Jason Doerr	ND
WEQ	m	nd	Basin Electric Power Cooperative	David Raatz	ND
WEQ	t	muni	Basin Electric Power Cooperative	Dan Klempel	ND
WGQ	s		Bentek Energy, LLC	E. Russell Braziel	CO
WGQ	s		BG Energy Merchants, LLC	Martha Braddy, Denise Almoina, Susan Bailey, Melody Fontenot	TX
WEQ	t	iou	Black Hills Corporation	Larry D. Williamson	SD
WGQ	pl		Boardwalk Pipelines, LP	Randy Young, Mitch Whitehead	TX
WGQ	e		Boeing Company	Tina Burnett	WA
WEQ	d	other	Bonneville Power Administration	Sydney D. Berwager	OR
WEQ	g	fed	Bonneville Power Administration	Francis Halpin, Robin Chung	OR
WEQ	m	fed	Bonneville Power Administration	Brenda Anderson	OR

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Quadrant	Segment	Sub-Segment	Member Company	Contact	State / Province
WEQ	t	fed	Bonneville Power Administration	Barbara Rehman, Tom Davis	OR
WEQ	e	lind	BP America, Inc.	Jeanne Zaiontz	TX
WGQ	pr		BP Energy	Mark Stultz, Rhonda Denton	TX
WEQ	t	fed	British Columbia Transmission Corporation	Rohan Soulsby	BC
WEQ	g	fed	California Department of Water Resources	William (Bill) Forsythe, Chi Doan	CA
WEQ	i		California ISO	Yakout Mansour	CA
WGQ	e		Calpine Energy Services, LP	Shonnie Daniel, Jay Dibble	TX
RGQ	s		Capacity Center	Greg Lander	MA
WGQ	s		Cargill Incorporated	Kathy Gerken	MN
WGQ	pl		Carolina Gas Transmission Corporation	Rae Davis, Dana B. Randall	SC
WGQ	s		CenterPoint Energy Gas Services, Inc.	James G. Beste, Larry Kunkle	TX
WGQ	pl		CenterPoint Energy Gas Transmission Company	Larry Thomas	TX
WGQ	pl		CenterPoint Energy Mississippi River Transmission Corp.	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
RGQ	s		Clarity Systems, Ltd.	Steve O'Neil	ONT
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
WEQ	g	merc	Conectiv Energy Supply, Inc.	Gloria Godson	DE
WGQ	pr		ConocoPhillips Gas and Power	Peter Frost	TX
WGQ	l		Consolidated Edison Company of NY	Scott Butler, Paul Olmsted	NY
WEQ	t	iou	Consolidated Edison Company of NY, Inc.	Scott Butler	NY
WGQ	s		Constellation Energy Commodities Group, Inc.	Lisa Simpkins, Joseph Kirwan, Andrea Kullman, Jennifer Scott	MD
WEQ	d	iou	Consumers Energy Company	Andrew C. Dotterweich, Frank Johnson	MI
WEQ	t	muni	Dairyland Power Cooperative	Chuck Callies	WI
WGQ	pl		Dauphin Island Gathering Partners	Katie Rice	CO
WGQ	s		DB Energy Trading	William Donnelly, Travis McCullough	NY
WGQ	e		Defense Energy Support Center	Veronica Jones, Kevin Ahern	VA
WGQ	e		Department of Energy	Christopher Freitas	DC
WEQ	g	muni	Deseret Generation & Transmission Co-operative	Curtis Winterfeld	UT
WGQ	pr		Devon Energy Corporation	Bill Green, Dianne Dunbar	OK
WEQ	g	iou	Dominion Energy Marketing, Inc.	Lou Oberski, Jalal Babik	VA
WGQ	l		Dominion Resources (Previously CNG)	Craig Columbo	VA

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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, Iris King	VA
REQ	u		Dominion Virginia Power	David F. Koogler, Mary Edwards	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
REQ	s		E:SO (Formerly EC Power International)	Judy Bailey, J. Cade Burks, Jennifer Teel	TX
WEQ	n	n	Edison Electric Institute	David Owens, Dave Dworzak, James P. Fama	DC
WGQ	pr		El Paso Exploration & Production Company	David A. Webster, Stephanie Karm	TX
WGQ	pl		El Paso Natural Gas	William Griffith	TX
WEQ	m		Electric Power Supply Association	Jack Cashin, Barry Green	DC
REQ	s		Electric Reliability Council of Texas (ERCOT)	Susan Munson, Kent Saathoff	TX
WEQ	i		Electric Reliability Council of Texas (ERCOT)	Bill Blevins, Paul Wattles, Joel Mickey	TX
WEQ	t	iou	Empire District Electric Company, The	Bary K. Warren	MO
WGQ	pl		Enbridge Energy Company Inc	Terry McGill	TX
WGQ	pr		EnCana Oil & Gas (USA) Inc.	Keith Sappenfield	ALB
WGQ	s		EnCana Marketing (USA) Inc.	Keith Sappenfield	CO
WEQ	t	iou	Energy East Management Corporation	Mark Marini	NY
WGQ	l		Energy East Management Corporation	Mark Marini	NY
WEQ	e	enduse	EnerNOC, Inc.	Aaron Breidenbaugh	MA
WEQ	g	merc	Entegra Power Group, LLC	Rebecca Turner	FL
WEQ	t	iou	Entergy Services, Inc.	Edward J. Davis, Narinder Saini	LA
WGQ	e		Entergy Services, Inc.	Laura Berryman, Terry Shields	LA
WGQ	pl		Enterprise Products Partners, LP	Richard W. Porter, Jeff Molinaro	TX
WGQ	pl		Equitrans, L.P.	Joseph M. Dawley	PA
RGQ	s		Exelon Energy	Sheree M. Petrone	PA
REQ	u		Exelon Energy Delivery	Toni Garza	IL
WEQ	m	iou	Exelon Generation - Power Team	Jack Crowley	IL
WGQ	pr		ExxonMobil Gas & Power Marketing Company a division of Exxon Mobil Corporation	Randy E. Parker, John W. Poe	TX
WEQ	d	iou	First Energy Service Company	Robert M. Martinko, Thomas C. Burgess	OH
WEQ	m	iou	FirstEnergy Solutions Corp.	Mark Travaglianti	OH
WEQ	d	muni	Florida Municipal Power Agency	Frank Gaffney	FL
WEQ	g	muni	Florida Municipal Power Agency	Frank Gaffney	FL
WEQ	m	iou	Florida Power & Light Company	Gerry Yupp, Tim Gerrish	FL
WEQ	t	iou	Florida Power & Light Company	Marty Mennes, Bob Birch	FL

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WGQ	e		Florida Power & Light Company	Dona Gussow, Art Morris	FL
WGQ	pr		Foothills Energy Ventures, LOC	Marty Patterson	TX
WGQ	e		FPL Energy Power Marketing, LLC	Marty Jo Rogers	FL
WGQ	pl		Gas Transmission Northwest Corporation	Jay Story	OR
WEQ	t	muni	Georgia Transmission Corporation	Patrick McGovern	GA
WGQ	pl		Golden Pass Pipeline, LLC	Susan Braden	TX
WGQ	pr		Goodrich Petroleum Company, LLC	Bill Hebenstreit	TX
WGQ	pl		Great Lakes Gas Transmission	Gene Fava	MI
WGQ	pr		High Mount Exploration and Production, LLC	David Ogden, Sheri Heslington, Gary Weaver	VA
WGQ	pl		Houston Pipe Line Company LP	Josie Castrejana, Melissa Graves, Robert Walker	TX
WEQ	t	fed	Hydro - Quebec Transenergie	Glenn Sylvain	QUE
WEQ	t	iou	Idaho Power Company	Tessia Park	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
WGQ	l		Integrys Energy Group, Inc.	David E. Wear	WI
RGQ	s		International LNG Alliance	David Sweet	DC
RGQ	s		Interstate Gas Supply	Ginger Fletcher	OH
WGQ	pl		Iroquois Gas Transmission System	Tom Gwilliam	CT
WEQ	i		ISO New England, Inc.	Matthew F. Goldberg	MA
WGQ	s		JP Morgan Ventures Energy Corp	Paul Tramonte	TX
WGQ	pl		Kern River Gas Transmission Company	Brenda Horton	UT
WGQ	l		Laclede Gas Co.	Kenneth Neises	MO
RGQ	s		Latitude Technologies	Leigh Spangler	TX
WGQ	s		Latitude Technologies	Leigh Spangler	TX
WEQ	g	muni	Lincoln Electric System	Douglas Bantam	NE
WEQ	t	muni	Los Angeles Department of Water and Power	Mohammed Johar Beshir	CA
WEQ	m	muni	Los Angeles Department of Water and Power	Bradford Packer, Joel F. Cordero	CA
WGQ	s		Louis Dreyfus Energy Services L.P.	Mary Ellen Bell, Ruby Melton	CT
WGQ	e		Lower Colorado River Authority	Mickey Bell	TX
WGQ	s		Macquarie Cook Energy, LLC	Angela Jones	CA
WEQ	t	fed	Manitoba Hydro	Blaine Poff	CAN
WEQ	m	fed	Manitoba Hydro	Blaine Poff	CAN
WGQ	pr		Marathon Oil Company	Robin Perrine	TX
WGQ	pr		Mewbourne Oil Company	Michael F. Shepard	TX
WEQ	d	muni	Michigan Public Power Agency	James R. Nickel, Daniel E. Cooper	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
WGQ	e		Mirant Energy Trading, LOC	Laura Trautman, John F. Hogan	GA
WEQ	d	muni	Missouri River Energy Services	Brian Zavesky	MO
WEQ	t	muni	Modesto Irrigation District	Roger Van Hoy	CA

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WEQ	e	reg	National Association of Regulatory Utility Commissioners	Lou Ann Westerfield	DC
WGQ	l		National Fuel Gas Distribution	Michael Novak	NY
RGQ	d		National Fuel Gas Distribution Corporation	Mike Novak	NY
WGQ	pl		National Fuel Gas Supply Corp.	Joseph Kardas	NY
WEQ	t	iou	National Grid	Edward M, Kremzier	MA
WGQ	l		National Grid Gas Distribution Companies	Bob Superty	NY
WEQ	d	muni	National Rural Electric Cooperative Assoc.	Barry Lawson, Paul McCurley	VA
WGQ	pl		Natural Gas Pipeline Co of America	Paul Love, Stan Thomas, Mike Schisler, Paul Haas	TX
WEQ	d	muni	NCMPA1	Martin Summe, George Landis	NC
WGQ	l		New Jersey Natural Gas Company	Douglas C. Rudd	NJ
WEQ	i		New York Independent System Operator	Rana Mukerji	NY
WEQ	d	at large	New York State Reliability Council	P. Donald Raymond	NY
WGQ	s		Nexen Marketing	Shelley Leavitt	ALB
WGQ	l		NiSource, Inc.	George Simmons, Sorana Linder	IN
WGQ	pl		Noble Americas Corp.	Joseph Limone	CT
WGQ	pr		Noble Energy, Inc.	Richard D. Smith, Tammy M. Stevens	TX
WEQ	d	at large	North American Electric Reliability Corporation (NERC)	Gerry Adamski, Andy Rodriquez	NJ
REQ	s		North Carolina Advanced Energy Corporation	Robert K. Koger	NC
WEQ	d	muni	North Carolina Electric Membership Corporation	David Beam	NC
WEQ	t	iou	Northeast Utilities Service Company	David Boguslawski, Calvin A. Bowie	CT
WGQ	pl		Northern Border Pipeline Company	Scott Coburn	NE
WGQ	pl		Northern Natural Gas	Mary Darveaux	NE
WGQ	l		Northwest Natural Gas Company	Randolph Friedman	OR
WEQ	t	iou	Northwestern Corporation	Mike Cashell	MT
WGQ	pl		NOVA Gas Transmission Ltd.	Doug Miller	ALB
WEQ	g	merc	NRG Energy, Inc.	Alan Johnson, Jennifer J. Vosburg	NJ
WEQ	m	iou	NV Energy	Sheryl Torrey	NV
WEQ	t	iou	NV Energy, Inc.	Patricia Englin	NV
WGQ	s		OGE Energy Resources, Inc.	Cary Metz	OK
REQ	u		Oncor	Larry Williford, Debbie McKeever	TX
WGQ	l		ONEOK	Richard Tangeman	OK
WGQ	pl		ONEOK Partners GP, LLC	Teri Tingler	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
WGQ	l		Pacific Gas & Electric	John Breen, Don Petersen	CA
WEQ	m	iou	PacifiCorp	John Apperson	OR
WEQ	t	iou	PacifiCorp	Shay Labray	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.	PA

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				Popowsky	
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	Ken Gates	DE
WEQ	i		PJM Interconnection	Patrick Brown, Cathy Wesley	PA
WGQ	s		Platts	Bill Murphy	CO
WEQ	t	iou	Portland General Electric	Frank Afranji, John Walker	OR
WGQ	pl		Portland Natural Gas Transmission System	David Haag	OR
WEQ	m	fed	Powerex Corp.	Michael L. McWilliams, Sharole Tylor	BC
WEQ	d	muni	PowerSouth Energy Cooperative	William Ronald Graham	AL
WEQ	t	iou	PPL Electric Utilities Corporation	Ray Mammarella	PA
WGQ	e		PPL EnergyPlus, LLC	Anne Lovett	PA
REQ	s		PPL Solutions, LLC	James M. Minneman, Kim Wall	PA
WEQ	t	iou	Progress Energy	Phillip W. Lewis	NC
WEQ	m	iou	Progress Energy (regulated)	James Eckelkamp	NC
WEQ	m	iou	Public Service Company of New Mexico	Steven Maestas, Darren Wilkins, Patricia Merville	NM
WGQ	l		Public Service Electric & Gas	David Wohlfarth	NJ
WEQ	t	nd	Public Service Electric and Gas Company	Kenneth D. Brown	NJ
WEQ	t	iou	Puget Sound Energy, Inc.	George Marshall, Bob Harshbarger	WA
WGQ	pl		Questar Pipeline Co.	Scott Hansen	UT
WGQ	s		Quorum Business Solutions Inc.	Anne Golenternek, Michael Lewis	TX
WGQ	pl		Reliance Gas Transportation Infrastructure Limited	Jagjit S. Yadav	India
WEQ	g	merc	RRI Energy Services, Inc.	Trent Carlson	TX
WEQ	d	muni	Sacramento Municipal Utility District	Steve Sorey	CA
WGQ	e	fed	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	Wendy Weathers, Michael J. Pfeister	AZ
WEQ	t	iou	San Diego Gas & Electric Company	Patricia vanMidde	CA
WEQ	t	fed	Santee Cooper	Tom Abrams	SC
WEQ	d	muni	Seattle City Light	Marilynn Semro, Thomas P. Rowan, Doug Rough	WA
WEQ	m	muni	Seminole Electric Cooperative, Inc.	Steve Wallace	FL
WGQ	l		Sempra Energy - Southern California Gas Co.	Lee Stewart, Rodger Schwecke	CA
WGQ	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
WGQ	s		SolArc, Inc.	Mark Davis	TX
WEQ	e	enduse	SonicWALL, Inc.	Boris Yanovsky	CA

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WEQ	m	iou	South Carolina Electric & Gas Company	Kevin Spitzform	SC
WEQ	t	iou	South Carolina Electric & Gas Company	S. Porcher Stoney	SC
WEQ	g	fed	Southeastern Power Administration	Carter B. Edge	GA
WEQ	t	iou	Southern California Edison	Weston Williams	CA
WEQ	g	iou	Southern California Edison Company	Tracy Bibb	CA
WGQ	e		Southern California Edison Company	Roman Bakke, Curt Roney	CA
REQ	s		Southern Company Services	Barbara Hingst	GA
WEQ	d	iou	Southern Company Services, Inc.	Gary Rozier, Greg Butrus	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.	R.D. (Dean) Ulch, John Lucas, JT Wood, James Y. Busbin, Daryl McGee	GA
WGQ	e		Southern Company Services, Inc.	Alan Kilpatrick, Bryan Mitchell	GA
WGQ	pl		Southern Natural Gas Co.	Renee Hyde, Tracey Nicholson, Ludean Wyatt	AL
WGQ	pl		Southern Star Central Gas Pipeline	Philip Rullman, Dale Sanders	KY
WGQ	l		Southwest Gas Corporation	Larry Black	NV
WEQ	i		Southwest Power Pool	Carl Monroe, Michael Desselle, Charles Yeung	AR
WEQ	t	muni	Southwest Transmission Cooperative, Inc.	Larry D. Huff	AR
WEQ	t	fed	Southwestern Power Administration	Tracey Stewart	OK
WGQ	pl		Spectra Energy Transmission	Richard Kruse, Kathryn Burch	NC
RGQ	s		Sprague Energy Corp.	Paul Scoff	NH
WEQ	e	at large	Sungard	Andrew Tritch	TX
WGQ	s		SunGard	Lucia Nail	TX
REQ	s		SunGard Consulting Services, LLC	Austin Morris	TX
RGQ	s		Systrends	Dave Darnell	AZ
WEQ	m	iou	Tampa Electric Company	Gail M. McKaig	FL
WEQ	g	merc	Tenaska, Inc.	Scott Helyer	NE
WGQ	pl		Tennessee Gas Pipeline Company	Sue Barry, Mark Gracey	TX
WEQ	g	fed	Tennessee Valley Authority	Kathy York	TN
WEQ	m	fed	Tennessee Valley Authority	Belinda Thornton, Valerie Crockett	TN
WEQ	t	fed	Tennessee Valley Authority	Chuck Feagans	TN
WGQ	e		Tennessee Valley Authority	Valerie Crockett	TN
WGQ	s		Tiger Natural Gas	Tracy Phillips	OK
WGQ	pl		TransCanada Pipelines	Doug Miller	ALB
WEQ	i		TranServ International, Inc.	Kevin Burns	MN
WGQ	pl		Transwestern Pipeline Company, LOC	B lair V. Lichtenwalter, Mary Dramer, David Mendoza	TX
WEQ	g	muni	Tri-State G&T Association, Inc.	Janelle Marriott	CO
WEQ	t	muni	Tri-State Generation and Transmission Association, Inc.	Carla Javornik, Doug Reese	CO
WEQ	t	iou	Tucson Electric Power Company	Raquel Aguilar, Judy Fregoso, Ed Beck	AZ
RGQ	d		UGI Utilities, Inc.	Paul Szykman	PA

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WEQ	t	iou	United Illuminating Company, The	Rose Pysh	CT
WGQ	pl		Vector Pipeline L.P.	Amy Bruhn	MI
RGQ	s		Vectren Retail, LLC	Tami Wilson	IN
WGQ	s		Vega Energy Partners, Ltd.	Julie Pincus, Lori Leeder	TX
REQ	s		Ventyx, Inc.	Anthony Hill	TX
WEQ	g	muni	Vermont Public Power Supply Authority	William J. Gallagher	VT
WGQ	l		Washington Gas Light Co.	Adrian Chapman, Mark Lowe, Paul Buckley	DC
WEQ	d	iou	We Energies	Linda Horn	WI
WEQ	g	iou	We Energies	James R. Keller	WI
WEQ	g	iou	Westar Energy, Inc.	Shah Hossain, Grant Wilkerson	KS
WEQ	m	fed	Western Area Power Administration	Jeffrey Ackerman	CO
WEQ	t	fed	Western Area Power Administration	JB Hite	CO
WEQ	t	at large	Western Electricity Coordinating Council	Michelle Mizumori, Louise McCarren	UT
WGQ	s		Williams Gas Marketing, Inc.	Rich Ficken	OK
WGQ	pl		Williams Gas Pipeline	Dale Davis, Christopher Burden	TX
WGQ	pl		Williston Basin Interstate Pipeline	Keith Tiggelaar, Gwen Schoepp, Kelly Brooks, Lori Myerchin	ND
REQ	u		Wisconsin Public Service Corporation	Dennis Derricks, Les Nishida, Ken Thiry	WI
RGQ	d		Wisconsin Public Service Corporation	Dennis Derricks, Ken Thiry, Les Nishida	WI
WEQ	g	iou	Wisconsin Public Service Corporation	Christopher Plante, Charles W. Severance, Neal Balu	WI
WEQ	d	muni	WPPI Energy	Mike Stuart	WI
WEQ	m	iou	Xcel Energy Inc.	David Lemmons	CO

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October 21, 2009

TO: WEQ Board Members

cc: NAESB Managing Committee, Smart Grid Strategic Steering Committee, WEQ Board and Executive Committee Members and Interested Industry Participants

FROM: Rae McQuade, President, NAESB

RE: NAESB WEQ Board discussion on Smart Grid and WEQ Segments Conference Call -- Notes from October 19, 2009, Redline of WE Procedures Reflecting Call

Dear WEQ Board Members and participants of the 10-19-09 call -

As promised, attached please find the notes from our conference call and the modifications to the WEQ Procedures in redline format as discussed on the call. Also included in the edits to the procedures are changes offered for Sections 7.5 and 10.5 C(1), which are provided to clarify the language, the intent of which is to preserve the balance of interests that are represented by the subsegments. The newly added language for a technology/services segment and the clarification for sections 7.5 and 10.5 C(1) has been reviewed by our General Counsel Bill Boswell and has been approved as appropriate for your consideration.

To proceed with changes to the WEQ Procedures, section 18[1] should be followed.

- We have already satisfied Section 18.1. The group meeting held on October 19 satisfies the initial drafting, and our General Counsel has approved the changes.
- The WEQ Board members will be asked to vote in a notational ballot, the term of which is 30 days.
- Should vote tally on the ballot meet the supermajority requirements from the WEQ Board members, a ratification ballot will be forwarded to the WEQ members for their vote.
- Should the vote tally of the ratification ballot meet the supermajority requirements of the WEQ members, the amended WEQ Procedures will be posted as final.

If there are no adverse comments on the WEQ Procedures edits as discussed on 10-19-09, we expect to follow the schedule of:

- We expect to send out the WEQ Board ballot on Monday November 2, 2009 to be returned on December 2, 2009.
- Should the Board ballot meet the requirements of supermajority, the ratification ballot will be sent out December 8 to be returned January 8, 2010.

With Best Regards, Rae

[1] **Section 18** addresses amendments to the WEQ Procedures. **(18.1)** Any interested party may request a change to the WEQ Procedures by forwarding a request in writing to the NAESB Office. **(18.2)** The WEQ Procedures Drafting Collaborative Task Force is charged with drafting amendments to the quadrant procedures. The changes will be reviewed by NAESB Counsel to ensure that the amendments are not inconsistent with the organization's certificate and bylaws. After such assessment, the procedures will be reviewed for adoption by the WEQ membership. The NAESB Office will forward proposed amendments with a notational ballot to all WEQ Board members. The notational balloting period shall be 30 days. For the amendments to be adopted, 75% affirmative vote of the WEQ Board members with a minimum of 40% affirmative vote from each segment will be required. After the WEQ Board vote is taken and passes, the amendments must also be ratified by WEQ membership. For the amendments to be ratified, a minimum of 75% of the WEQ members returning ballots should vote affirmatively. **(18.3)** The foregoing notwithstanding, any actions taken under Section(s) 2.4, 7.5, or 10.5c of the WEQ Procedures shall be approved only in accordance with the provisions set forth in those Section(s); once so approved, such actions shall not be subject to, or require, any other or additional consideration under Section 18 of the WEQ Procedures.

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TO: NAESB Managing Committee, Smart Grid Strategic Steering Committee, WEQ Board and Executive Committee Members and Interested Industry Participants

FROM: Jonathan Booe, NAESB Staff Attorney

RE: NAESB WEQ Board discussion on Smart Grid and WEQ Segments Conference Call Notes – October 19, 2009

Dear Participants,

A conference call was held on October 19, 2009 to initiate discussions concerning possible modifications to the WEQ segment structure to accommodate participants in the NAESB Smart Grid effort that are not currently represented in the NAESB WEQ segment framework. The conference call took place from 1:00 pm to 3:07 pm Central. Mr. Booe served as counsel for the meeting. The notes below and the attachments to these notes serve as the record for the meeting.

October 19, 2009 NAESB WEQ Board Discussion on Smart Grid and WEQ Segments

Administrative	Mr. Desselle welcomed the participants on the phone. Mr. Booe provided the anti-trust guidance. The participants on the phone introduced themselves. Mr. Desselle reviewed the agenda and Mr. Oberski moved to adopt the agenda as drafted. Mr. Smead seconded the motion and the motion passed without opposition.
Participants	Pedro Lagos, Alberta Electric System Operator Marcie Otondo, Arizona Public Service Jack Cashin, EPSA Barry Green, EPSA Paul Wattles, ERCOT Aaron Breidenbaugh, EnerNOC Ed Davis, Entergy Scott Brown, Exelon Lou Oberski, Dominion Resources Ed Skiba Midwest ISO Paul McCurley, NRECA Eric Winkler, New England ISO Jonathan Booe, NAESB Bill Boswell, NAESB Rae McQuade, NAESB Rick Smead, Navigant Consulting Cathy Wesley, PJM Bob Harshbarger, Puget Sound Energy Jesse Hurley, Shift Research Terry Coggins, Southern Company John Lucas, Southern Company Daryl McGee, Southern Company Michael Desselle, Southwest Power Pool Charles Yeung, Southwest Power Pool Valerie Crockett, Tennessee Valley Authority Kathy York, Tennessee Valley Authority Michelle Mizumori, WECC
Review work assignments to NAESB from NIST/DoE for Smart Grid standards development	Mr. Desselle provided an update of NAESB's involvement in the NIST Smart Grid initiative to date. He noted that many of the participants in the NIST Smart Grid initiative do not fit into the current WEQ framework and that the Quadrant should consider modifying its current segment structure to accommodate the unrepresented participants. Mr. Hurley stated that several companies such as IBM, Dell and Oracle are participating in the effort and that NAESB should take a proactive stance to make NAESB more visible to these companies and provide incentive for membership. Ms. McQuade highlighted the activities of the NAESB Smart Grid Standards Task Force and noted that several organizations outside of the energy industry are participating in phase one of the work, currently underway, including FIX Protocol, iCalendar and Calconnect. Mr. McCurley asked if additional standards will be developed as part of a phase two. Ms. McQuade stated that she envisions many standards being developed and maintained over a period of 8 to 10 years. Mr. Goldberg asked if the WEQ EC will be expected to vote on the standards and if the FERC is aware of the steps NAESB is taking. Ms. McQuade responded that the WEQ EC will be expected to vote on the work products of the Task Force in the November time frame and that FERC staff has been participating on the conference calls. She noted that the Task Force unanimously agreed that the standards developed should become NAESB standards to ensure the robust support of many parties interests. Ms. Otondo asked if the work of the Task Force addresses both the wholesale and retail markets and Mr. Green asked if the wholesale standards only address ISO/RTO markets. Ms. McQuade answered that the standards will address both the wholesale and retail markets and that the wholesale work will likely encompass markets outside of ISO's and RTO's. Mr. Desselle stated that the industry is undergoing a

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paradigm shift and that the Organization must shift with it in order to continue to be represented in the industry.

Mr. Brown stated that it is clear that NIST has identified NAESB as a leader in the 3 of the 14 areas and that the Board needs to ensure that NAESB addresses the items. Mr. Davis asked if the group should consider adding an additional Quadrant rather than a segment of the WEQ, given the cross-cutting nature of the work. Ms. Hurley noted that the cyber-security issues affect not only retail and wholesale electric but also retail and wholesale gas. Mr. Lucas stated that Southern Company has discussed the Smart Grid with both NIST and the FERC and he cautions against moving too fast as the relationship between the two agencies has not been completely settled. Mr. Goldberg asked what the timeline would be for the modifications being discussed. Mr. Desselle stated that he would like to start acting on the modification immediately. Ms. Otondo stated that she is concerned that adding segments in response to the Smart Grid assignments could hinder other work of the organization as it would make it more difficult to achieve the necessary supermajority of the WEQ EC to pass standards. She stated that the additional members may not have any interest in the work of the other NAESB subcommittees and abstain from voting on recommendations. Ms. McQuade noted that adding an additional Quadrant as proposed by Mr. Davis would require current members that are interested in the Smart Grid activities to hold multiple memberships in order to vote at the EC level.

Review WEQ Segment Structure and draft strawman

Mr. Desselle reviewed the strawman work paper provided in the agenda. He stated that the modifications reflect the addition of a Technologist and a Renewables/Demand Side Management segment. Mr. Davis suggested some modifications to the Renewables/Demand Side Management segment description contained in Section 2.3(h). Mr. Winkler stated that he is concerned that technologists segment would not be broad enough to include companies like EnerNOC and Energy Service Companies. He also stated that companies that would join the Renewables/Demand Side Management segment could be included in the current Generators segment. Mr. Smead noted that the important thing about having companies like Google and Microsoft become members is that the organization would have access to them, despite their Quadrant or segment. Mr. Brown stated that he likes what other Quadrants have done with the addition of a Services segment and that it might be appropriate for the WEQ. The participants supported his suggestion. Mr. Breidenbaugh noted his concerns about adding segments when the current segments are not fully populated now. Mr. Lucas stated that Southern Company would like to leverage the existing At Large seats for the new Smart Grid participants, as a first choice, but if the group determines a new segment must be added he prefers the Services segment suggestion. Ms. Crockett stated that she supports the addition of a Services segment and suggested that the participants consider eliminating the subsegment designations. Mr. Desselle took a straw poll to estimate support for the suggestion of eliminating the subsegments. A clear majority supported the continuation of the subsegment structure.

Ms. McQuade noted that a significant number of participants supported the suggestion of the addition of a Services segment. Mr. Hurley suggested that additional segment be designated the Services/Technologists segment. The participants supported his suggestion. Mr. Smead asked if consultants would continue to hold their At-Large seats in the other segments or would they be placed in the new segment. The participants agreed that the At-Large designation should continue for the consulting companies. The participants discussed narrowing the segment by requiring a designation a demand side or load side but decided to keep the scope more broad. Mr. Breidenbaugh verified that EnerNOC would not be moved to the new segment. The participants confirmed that companies such as EnerNOC should continue to hold At-Large seats within the appropriate segments.

Determine next Steps

Mr. Desselle took a straw poll to estimate the support for the addition of Services/Technologists segment. Ms. Otondo representing APS, and Mr. Lucas representing Southern Company, opposed the addition of the segment pending further discussion. All other participants supported the addition or abstained. Ms. McQuade stated that she would circulate a modified version of the WEQ Procedures reflecting the addition of the segment. Mr. Desselle asked if it would be easier to move forward with the modifications in conjunction with the discussion concerning at-large seats for vacancies that is to take place next week. Mr. McCurley asked that a description of the process for adoption be included with the proposed modifications.

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Home Page: www.naesb.org

Adjournment	Mr. Lucas made a motion to adjourn. The meeting was adjourned at 3:07 pm Central.
Action Items	Ms. McQuade undertook to modify the WEQ Procedures as discussed during the meeting and circulate the proposed changes among the participants via email
Meeting Materials	Meeting Announcement: http://www.naesb.org/pdf4/weq_101909_announcement.doc
	Meeting Agenda and Strawman: http://www.naesb.org/pdf4/weq_101909w1.doc

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Work Paper -- Draft Procedure Changes to Accommodate Additional WEQ Segments
North American Energy Standards Board - Wholesale Electric Quadrant Procedures
As Amended and Approved by the NAESB WEQ Membership –November 12, 2007

1 Definitions

1.1 Definitions Included In NAESB Bylaws

All capitalized terms, if not defined in Section 1.2, shall have the same definitions as specified in the Bylaws or Certificate of Incorporation (Certificate) of NAESB.

1.2 Definitions for the Purposes of this Exhibit

A "Entity" - an individual, partnership, firm, corporation or organization who is a Member of the WEQ.

B "IOU" - an investor owned entity with substantial business interest in owning and/or operating any two of the following three asset categories --- generation, transmission, distribution.

C "Segment Membership" - the Segment Members collectively.

D **"**Segment Procedures" - the procedures that may be attached to this document as exhibits for each of the Segments, as amended.

E "Services" - providers of services to participants in the wholesale electric industry, which would include, but not be limited to, software providers, consultants and other Entities not otherwise considered to be a Transmission, Generation, Marketer/Broker, Distribution/Load-Serving Entity or End-User.

F "Sub-Segment" - the allocation of Board and EC seats as shown on Attachment A.

G "Sub-Segment Principles" - the principles described in Section 2.4 of these Procedures.

H "Sunrise" - Sub-Segments may be revisited at any time, but no later than three (3) years from WEQ formation approval by the NAESB Board. .

I "WEQ" - the Wholesale Electric Quadrant.

J "WEQ Designated Alternates" - the group of WEQ Memberships selected by each WEQ Membership Segment's Sub-Segment to serve in the stead of WEQ EC Members who are unable to attend EC meetings.

K "WEQ EC" - the Executive Committee of the WEQ.

L "WEQ Membership" - the Voting Members of the WEQ collectively.

M "WEQ Segment" - one of seven~~six~~ (7~~6~~) equal Membership Segments of the NAESB WEQ, representing the following ***functions*** that exist in the operation of the wholesale electric industry: **Transmission; Generation; Marketers/Brokers; Distribution/Load Serving Entities; End User**, **Independent Grid Operators/Planners; and Technology and Services~~.~~**

2 Purpose, Scope, Activities and Policies

2.1 Purpose, Scope and Activities

A Purpose

The purpose of the WEQ of NAESB is to propose, evaluate and adopt voluntary Standards that apply to business practice Standards, Model Business Practices and communication protocols including, but not limited to, electronic data interchange ("EDI") record formats. All Standards shall be designed to promote more competitive, efficient and reliable wholesale electric service.

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B Scope and Activities

The WEQ is concerned with activities necessary or desirable to achieve the objectives and purposes of the commercial aspects of the wholesale electric industry, and are appropriate to the operation of the wholesale electric market.

The WEQ will work closely with other NAESB Quadrants to strive for consistency where proposed business practice Standards, Model Business Practices and communication protocols affect those other Quadrants.

2.2 Policies

The WEQ shall comply with the policies and procedures specified in the Bylaws and Certificate of NAESB.

2.3 Segment Organization and Description

The WEQ shall be composed of ~~six~~ seven Segments: (1) Transmission, (2) Generation, (3) Marketers/Brokers, (4) Distribution/Load Serving Entities, (5) End Users, ~~and~~ (6) Independent Grid Operators/Planners, and (7) Technology and Services. Each prospective Member of the WEQ shall declare the Segment(s), and if applicable, the Sub-Segment, with which they have a legitimate business interest and are to be identified.

A Transmission

Any Entity engaged in the activity of owning, operating or controlling bulk electric transmission facilities in North America.

B Generation

Any Entity engaged in the activity of owning and/or operating wholesale electric generation facilities in North America.

C Marketers/Brokers

Any Entity engaged in the activity of buying and selling wholesale electric power in North America on a physical or financial basis.

D Distribution/Load-Serving Entities

Any Entity engaged in the activity of electric power sales and/or delivery to end use customers in North America, or any Entity designated to represent a distribution utility.

E End Users

Any Entity in North America that is an end use consumer of electricity, engages in electricity regulation, or represents customer interests, or any Entity designated to represent an end user.

F Independent Grid Operators/Planners

Any Entity in North America authorized by an appropriate governmental authority to operate as a regional transmission organization, independent system operator, independent tariff administrator or independent planning entity and which does not have a business or financial interest in any other WEQ segment

G Technology and Services

Any Entity in North America engaged in providing hardware and software applications and technology related services to the North American wholesale electric market.

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2.4 Sub-Segment Principles

The WEQ shall use the following principles to develop Sub-Segments for each Segment. These principles shall continue to be used for future Sub-Segment development. Sunrise rules will apply to the Sub-Segments. Changes to Sub-Segments require a 75% affirmative vote of the WEQ Membership from that Segment of which that Sub-Segment is a part and a 67% affirmative vote of the WEQ Membership as a whole. In both cases, the percentages are calculated based on those members who return ballots. Appeals of the changes to Sub-Segments should be addressed b y the aggrieved Sub-Segment to the NAESB Office. The appeals will be considered by the NAESB Board of Directors members who represent the WEQ, and will be resolved through a 75% affirmative vote of the NAESB Board of Directors members representing the WEQ, and a minimum 40% affirmative vote of each of the NAESB Board of Directors members representing the WEQ for each of the WEQ Segments. As noted earlier, the percentages are calculated based on those members who vote.

The Segment organization will operate under the following Sub-Segment Principles:

A No single business interest can by itself pass a Standard.

B All appropriate interests are represented.

C No Sub-Segment may alone block action.

D Creation of any new segment requires sub-segment definitions within 9 months after segment population.

2.5 Sub-Segment Organization

See Attachment A. Attachment A "Procedural Elements" are not intended to conflict with the WEQ Quadrant Procedures. As of February 2, 2007, the Sub-Segments and seats held on the Board of Directors and Executive Committee per Segment are:

Transmission:	Sub-segments:	Muni/Coop	Number of Seats: 1
		Fed/State/Provincial	1
		IOU	2
		ITC	2
		At Large	1
Generation:		Muni/Coop	1
		Fed/State/Provincial	1
		IOU	2
		Merchant	2
		At Large	1
Marketers/Brokers:		Muni/Coop	1
		Fed/State/Provincial	1
		Non- IOU Affiliated	2
		IOU Affiliated	2
		At Large	1
Distribution/Load Serving Entities:		Muni/Coop	2
		IOU	2
		Competitive Retailer	1

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	(not available to muni/coop, IOU or IOU affiliates)	
	Other	1
	(not available to muni/coop, IOU or IOU affiliates)	
	At Large	1
End Users:	End Use *(also in another segment)*	1
	Regulator	1
	Residential/Commercial	1
	Large Industrial (not in other segments)	2
	End Use (Self Generation)	1
	At Large	1
Independent Grid Operators/Planners		7
Technology & Services		7

3 Reserved

4 Reserved

5 Members

5.1 Voting Members

A Membership

Membership and voting rights in the WEQ shall be open to any person or legal Entity that:

1 Has an active, significant business interest in the wholesale electric market or is the representative or Agent of such a person or Entity, and

2 Is current in payment of its membership dues.

B Multiple Memberships Per Quadrant

Memberships in multiple Segments of the WEQ are permissible for any Entity, provided each membership is filed and declared with NAESB, the Entity meets the membership requirements of each Segment joined, membership dues are paid for each Segment and different company personnel are used for each Segment's activities.

C Segment and Sub-Segment Qualification

Upon joining the NAESB WEQ, the Voting Member must identify a Segment and within that Segment, only one Sub-Segment, in accordance with Section 2.3 and the Sub-Segment allocation shown in Attachment A, that it feels most closely aligns with its business interest.

If membership in the Segment is challenged, participation by this Voting Member can be barred by a 67% affirmative vote of that Segment. If a Voting Member is disallowed, the Voting Member has 60 days to appeal the decision to the Board of Directors, and upon receipt of the appeal, the Board of Directors will take action within 60 days. If the Voting Member does not appeal the disallowal or if the Board of Directors upholds the disallowal action in the case of an appeal, reselection of Segment and Sub-Segment will be required. In the case of an appeal, the Voting Member will remain a Voting Member in the Segment, and Sub-Segment, pending the resolution of the appeal by the Board of Directors.

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If membership in the Sub-Segment is challenged, participation by this Voting Member can be barred by a 67% affirmative vote of that Sub-Segment. If a Voting Member is disallowed, the Voting Member has 60 days to appeal the decision to the Board of Directors, and upon receipt of the appeal, the Board of Directors will take action within 60 days. If the Voting Member does not appeal the disallowal or if the Board of Directors upholds the disallowal action in the case of an appeal, reselection of Segment and Sub-Segment will be required. In the case of an appeal, the Voting Member will remain a Voting Member in the Segment and Sub-Segment pending the resolution of the appeal by the Board of Directors.

D Multiple Corporate Memberships

An Entity may join and vote in all Segments for which it is qualified and for which its membership dues are current. Multiple companies under common control within a corporate organization that desire to become Voting Members must join individually. Members cannot extend their WEQ Membership to their parent company, affiliates, or subsidiaries.

6 Meetings of the Members

All meetings held in association with the NAESB organization, or the WEQ, are open to any interested Entity and will be held in accordance with the NAESB Operating Procedures. From time to time, there may be joint meetings of the WEQ with other Quadrants within NAESB, and Segments may meet jointly to transact Quadrant business. Only the EC, Board and the WEQ Membership ratification processes are limited to Voting Members.

7 Board

7.1 Board Representation

The membership of each WEQ Sub-Segment shall elect representatives to the Board from its Sub-Segment in accordance with the NAESB Bylaws, Certificate, and these WEQ Procedures.

7.2 Qualifications of Board Members

A Eligibility

To be eligible to serve as a NAESB Board Member from the WEQ, a nominee must:

1 Have a working knowledge of the NAESB process,

2 Be willing to commit the time and resources necessary,

3 Have the authority to fulfill the obligations as a Board representative,

4 Be willing to meet the minimum threshold of participation and attendance established in the NAESB Bylaws, Section 9.7(f), and any other applicable provisions, as set forth in the NAESB Bylaws and

5 Be a Voting Member or a partner, an officer, an employee or an agent of a Voting Member of the WEQ.

B One Member, One Seat Per Segment

No two Board Members from the same or affiliated companies can be elected to the Board from the same Segment.

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C RESERVED

7.3 Number and Election of Board Members

A Number of Board Members

The WEQ shall elect ~~forty-two (42~~forty-nine (49) Board Members. Each Segment of the WEQ will elect seven (7) Board Members, in accordance with the Sub-Segment allocation shown in Attachment A of the WEQ Procedures. Vacant seats are subject to Section 7.5 C of these WEQ Procedures.

B Election of Board Members

Nominations for and election of Board Members will be in accordance with the Sub-Segment allocation shown in Attachment A. Only Voting Members of the particular Sub-Segment for which the Board seat is being sought are allowed to vote in this process.

C Board Election Procedures

In preparation for any election of Board Members, other than initial Board Members:

1 Nominations may be made at or prior to the close of the WEQ nomination period by any appropriate Sub-Segment Member by submitting the candidate names to the NAESB Office in accordance with the NAESB Operating Procedures.

2 All Board nominees shall meet the personal and membership eligibility requirements set out in these WEQ Procedures. NAESB shall confirm that a nominee meets the Board eligibility requirements.

3 All eligible nominees shall state in writing their willingness to accept the responsibility of serving as a Board Member, prior to the submission of their names to the Sub-Segment WEQ Membership at the election.

4 The WEQ Board nomination period shall end two weeks prior to the commencement of the election period. This deadline may be extended. All nominations will be in writing or by electronic communications.

5 Any WEQ Sub-Segment Voting Member who is current in the payment of its membership dues is eligible to one vote per open Sub-Segment seat. The ballot shall contain the names of all eligible nominees

6 The candidates receiving the greatest number of votes shall be elected.

7 In the event of a tie, a runoff election will be held to resolve the tie. In the event of another tie, the candidate chosen by lot will be announced as the newly elected Board member. The NAESB Office will conduct the lottery required to resolve the tie.

D Timing of Elections

The election of Board Members shall occur concurrently for all Segments of the WEQ.

7.4 Term of Office

A Terms

Initially, Board Members shall be elected for two-year terms, with half of the terms expiring in alternating years. All subsequent elections for other than filling vacancies during a term, are for two year terms.

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B Limit on Number of Terms of Office

Board Members from the WEQ may run for re-election without restriction on the number of terms held.

C Change of Affiliation

In the event that a WEQ Board Member changes member or company affiliation, the Board seat will become vacant and open for re-election as prescribed in Section 7.5 of these WEQ Procedures.

7.5 Vacancies

A A person shall cease to be a member of the Board upon (1) the Board Member's resignation, removal, or death; (2) term expiration; or (3) the resignation or lapse, through a delinquency in payment of the membership dues, of the Segment Membership of the Entity that the Board Member represents. A vacancy shall be filled for the remainder of that term in accordance with Section 7.5 B & C of these WEQ Procedures.

B In the event that a Board Member resigns or otherwise vacates a seat, and less than 90 days remain in the term of office, the Board seat will remain vacant until the next election period.

C If any seat on the Board becomes vacant and more than 90 days remain in the term of that seat, the respective Sub-Segment will conduct nominations and elections to fill that seat.

1. If the seat is vacant after ninety (90) days, that seat will be designated an "at large" seat and the Segment will hold elections to fill that seat conforming to the Sub-Segment Principles. When the "at large" seat reaches its term expiration, it will revert to its original sub-segment designation. Should the "at large" seat become vacant, it will revert to its original sub-segment designation.

2. If the seat is vacant after 180 days, the voting rights of that "at large" seat will be suspended and the Segment will be expected to re-organize with new Sub-Segments consistent with the seven (7) Board seats, seven (7) EC seats, and Sub-Segment Principles. The new sub-segmentation will become effective on approval by 75% of the Segment and then 67% of the WEQ Membership. The percentage will be based on those members voting. The Segment will then conduct elections for its Board and EC members with the rights of the Board Members effective under the new Sub-Segment designations.

3. If, after 270 days of the original vacancy, the Segment is unable to develop new Sub-Segments, an affirmative vote of 67% of the WEQ Membership is needed within the next ninety (90) days to develop and approve the new Sub-Segments for the Segment consistent with the Sub-Segment Principles. New Segment elections will be conducted as outlined above.

4. At any time during the vacancy of the seat, the Sub-Segment in question elects a Board member to fill the vacancy, no further Sub-Segment actions are necessary.

7.6 Reserved

7.7 Resignation of Members of the Board

A Member of the Board may resign his or her position by submitting a letter to the Secretary of NAESB with a copy to the Board Chair stating that he or she is resigning and giving the effective date of the resignation.

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8 Election of WEQ Board Vice Chair

8.1 Eligibility

Any Board member who is a member of the WEQ may be nominated for the WEQ Board Vice Chair position.

8.2 Election Process

After a two week process where Board members can nominate, (including self-nomination), the NAESB office will run an election for the office of the WEQ Board Vice Chair and the candidate receiving the most votes from among the WEQ Board members will be announced as the WEQ Board Vice Chair. The WEQ Board Vice Chair may run for re-election at the conclusion of his/her term.

8.3 Term

The WEQ Board Vice Chair will remain in office until the earlier of: the conclusion of the two year term, or he/she no longer holds a Board seat.

9 Reserved.

10 Executive Committee

10.1 EC Representation

The membership of each WEQ Sub-Segment shall elect representatives to the EC from its Sub-Segment in accordance with the NAESB Bylaws, Certificate, and these WEQ Procedures.

10.2 Qualifications of EC Members

A Eligibility

To be eligible to serve as a NAESB EC Member from the WEQ, a nominee must:

1 Have a working knowledge of the NAESB process

2 Be willing to commit the time and resources necessary,

3 Have the authority to fulfill the obligations as an EC representative,

4 Be willing to meet the minimum threshold of participation and attendance established in the NAESB Bylaws, Section 10.4(j), and any other applicable provisions, as set forth in the NAESB Bylaws and

5 Be a Voting Member, or a partner, an officer, employee or an agent of a Voting Member of the WEQ.

B One Member, One Seat Per Segment

No two EC Members from the same or affiliated Entities can be elected to the EC from the same Segment.

C Reserved

10.3 Number and Election of EC Members

A Number of EC Members

The WEQ shall elect ~~forty-two (42~~forty-nine (49) EC Members. Each Segment of the WEQ will elect seven (7) EC Members, in accordance to the Sub-Segment allocation shown in Attachment A of the WEQ Procedures. Vacant seats are subject to Section 10.5 C of these WEQ Procedures.

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B Election of EC Members

Nominations for and election of all EC Members will be in accordance with the Sub-Segment allocation shown in Attachment A. Only Voting Members of the particular Sub-Segment for which the EC seat is being sought are allowed to vote in this process.

C Election Procedures

In preparation for any election of EC Members:

1 Nominations may be made at or prior to the close of the WEQ nomination period by any appropriate Sub-Segment Member by submitting the candidate names to the NAESB Office in accordance with the NAESB Operating Procedures

2 All EC nominees shall meet the personal and membership eligibility requirements set out in these WEQ Procedures. NAESB shall confirm that a nominee meets the EC eligibility requirements

3 All eligible nominees shall state in writing their willingness to accept the responsibility of serving as an EC Member, prior to the submission of their names to the Sub-Segment WEQ Membership at the election.

4 The WEQ EC nomination period shall end two weeks prior to the commencement of the election period. This deadline may be extended. All nominations shall be in writing or electronically communicated.

5 Any WEQ Sub-Segment Voting Member who is current in the payment of its membership dues is eligible to vote per open Sub-Segment seat. The ballot shall contain the names of all eligible nominees.

6 The candidates receiving the greatest number of votes shall be elected.

7 In the event of a tie, a runoff election will be held to resolve the tie. In the event of another tie, the candidate chosen by lot will be announced as the newly elected EC member. The NAESB Office will conduct the lottery required to resolve the tie.

D Timing of Elections

The election of EC Members shall occur concurrently for all Segments of the WEQ.

E Officers of the WEQ EC

The WEQ EC shall elect a vice chair of the EC, and may elect a second vice chair who shall serve for a period of one (1) calendar year. The Vice Chair, and in his or her absence the Second Vice Chair, shall preside over the meetings of the WEQ EC.

1 Eligibility

Any EC member who is a member of the WEQ quadrant may be nominated for the WEQ EC Vice Chair position or Second Vice Chair position. It is encouraged but not required that the WEQ EC Vice Chair position and Second Vice Chair represent different segments of the WEQ.

2 Election Process

After a two week nomination process where WEQ EC members can nominate including self-nomination, the NAESB office will run an election and the candidates receiving the most votes from among the WEQ EC members will be announced the as the officers of the WEQ EC.

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10.4 Term of Office

A Terms

Initially, EC Members shall be elected for two-year terms, with half of the terms expiring in alternating years. All subsequent elections for other than filing vacancies during a term, are for two years.

B Limit on Number of Terms of Office

EC Members from the WEQ may run for re-election without restriction on the number of terms held, provided that the position of the EC Vice Chair and Second Vice Chair shall have a term limit of one year each.

C Change of Affiliation

In the event that the EC Member changes member or company affiliation, the EC seat will become vacant and open for re-election as prescribed Section 10.5 of these WEQ Procedures.

10.5 Vacancies

A A person shall cease to be a member of the EC upon (1) the EC Member's resignation, removal, or death; (2) term expiration; or (3) the resignation or lapse, through a delinquency in payment of the membership dues, of the Segment Membership of the Entity that the EC Member represents. A vacancy shall be filled for the remainder of that term in accordance with Sections 10.5B & C of these WEQ Procedures.

B In the event that an EC Member resigns or otherwise vacates a seat with less than 90 days remaining in the term of office, the EC seat will remain vacant until the next election period and the respective Sub-Segments Designated Alternate will serve until a new EC Member is elected.

C If any seat on the EC becomes vacant and more than 90 days remain in the term of that seat, the respective Sub-Segment will conduct nominations and elections to fill that seat.

1. If, after ninety (90) days the seat is still vacant, that seat will be designated an "at large" seat and the Segment will hold elections to fill that seat conforming to the Sub-Segment Principles. When the "at large" seat reaches its term expiration, it will revert to its original sub-segment designation. Should the "at large" seat become vacant, it will revert to its original sub-segment designation.
2. If, after 180 days of the vacancy, that seat is still vacant, the voting rights of the "at large" seat will be suspended and the Segment will be expected to re-organize with new Sub-Segments consistent with the seven (7) EC seats, seven (7) Board seats, and Sub-Segment Principles. The new sub-segmentation will become effective on approval by 75% of the Segment and then 67% of the WEQ Membership. The percentage will be based on those members voting. The Segment will then conduct elections for its Board and EC members with the rights of the Board Members and EC Members effective under the new Sub-Segment designations.
3. If, after 270 days of the original vacancy, the Segment is unable to develop new Sub-Segments, an affirmative vote of 67% of the WEQ Membership is needed within the next 90 days to develop and approve the new Sub-Segments for the Segment consistent with the Sub-Segment Principles.
4. At any time during the vacancy of the seat, the Sub-Segment in question elects a Board member to fill the vacancy, no further Sub-Segment actions are necessary.

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10.6 Reserved

10.7 Resignation of Members of the EC

A Member of the WEQ EC may resign his or her position by submitting a letter to the Secretary of NAESB with a copy to the WEQ EC Vice-chair stating that he or she is resigning and giving the effective date of the resignation.

10.8 Designated Alternates

Each Segment's Sub-Segment of the WEQ may develop and approve a list of individuals to serve as Designated Alternates and will give such list to the NAESB office in accordance with the NAESB Bylaws.

A Authority

Persons presenting themselves at an EC meeting as Designated Alternates will be accepted as a participant provided that:

1 No two EC Members and Designated Alternates from the same Voting Member can represent a Segment at an EC meeting.

2 He or she has been designated to attend by an absent EC Member from his/her Segment's Sub-Segment.

3 The WEQ EC Member from that Segment either indicates to the NAESB Office, EC Chair or Vice Chair that the EC Member will be absent, or is in fact absent and remains absent, and

4 The name of the Designated Alternate is on a list of approved Designated Alternates selected by the appropriate Sub-Segment Membership according to these WEQ Procedures, and is on file with the NAESB Office.

B Election of Designated Alternates

Each Sub-Segment may select Designated Alternates. In selecting Designated Alternate, the items below should be followed:

1 EC representative of Sub-Segment submits the list to NAESB office.

2 Alternates are members or agents of members of NAESB in good standing.

3 Alternates may not be presiding EC representatives (in any Segment or Sub-Segment) in the WEQ.

4 The Sub-Segment may provide a list that is considered approved if no objection from the Sub-Segment is raised. If objection is raised and not accommodated by the EC member providing the list, a vote of the Sub-Segment members is taken to approve the list with a 67% affirmative vote of those Sub-Segment members required for approval.

5 Alternates List may be revised.

10.9 EC Meetings

A WEQ EC Meetings

1 WEQ EC meetings shall be held at times and locations determined by the EC Vice Chair or Second Vice Chair of the WEQ EC. The capability to participate by telephone is required for all WEQ EC meetings.

2 The NAESB Office shall record the minutes of EC meetings.

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B Notices

The NAESB Office shall post advance meeting notices and agendas on the NAESB website and transmit same in writing, by facsimile, e-mail, or other electronic means to all WEQ EC Members. Unless under extreme circumstances, meeting notices shall provide at least 10 days notice of the meeting.

C Voting

1 The WEQ EC shall practice Balanced Voting and record voting results.

2 Each WEQ EC Member may participate and vote in EC meetings by notational ballot. Every notational ballot shall be executed in writing by the WEQ EC Member or by his or her duly authorized attorney in fact and filed with the Secretary of NAESB. The notational ballot may be mailed, sent via facsimile or sent via electronic mail to the NAESB Office.

3 Notational voting shall be permitted in accordance with the NAESB Bylaws, Section 10.4 (k)(i-iii).

D Joint EC Meetings

In the event that the EC of the WEQ meets jointly with an EC of another NAESB Quadrant, the choice of Quadrant EC Vice Chair presiding over the joint meeting will be determined by the precedence established in the order of rotation of EC Vice Chairs as specified in the NAESB Bylaws.

10.10 EC Subcommittees & Task Forces

A Establishing Subcommittees & Task Forces

The EC of the WEQ shall set up its own subcommittees and task forces to deal with WEQ-specific issues for standards development as described in the WEQ Annual Plan. The WEQ EC chair may assign or solicit volunteers from the EC to co-chair the subcommittee or task force. The subcommittees and task forces will proceed in accordance with the relevant NAESB Operating Practices.

B Meeting Minutes

In the event that an individual from the NAESB Office is unavailable to take minutes, the Chair of any subcommittee / task force meeting will designate an individual to take minutes and forward them to the NAESB Office.

C Reporting

Each WEQ EC subcommittee or task force will report to the EC at no less than quarterly intervals, on a schedule to be defined by the EC for as long as the subcommittee or task force continues to exist.

11 Reserved

12 Reserved

13 Reserved

14 Reserved

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Work Paper -- Draft Procedure Changes to Accommodate Additional WEQ Segments
North American Energy Standards Board - Wholesale Electric Quadrant Procedures
As Amended and Approved by the NAESB WEQ Membership –November 12, 2007

15 Reserved

16 Reserved

17 Reserved

18 Amendments

18.1 Any interested party may request a change to the WEQ Procedures by forwarding a request in writing to the NAESB Office.

18.2 The WEQ Procedures Drafting Collaborative Task Force is charged with drafting amendments to the quadrant procedures. The changes will be reviewed by NAESB Counsel to ensure that the amendments are not inconsistent with the organization's certificate and bylaws. After such assessment, the procedures will be reviewed for adoption by the WEQ membership. The NAESB Office will forward proposed amendments with a notational ballot to all WEQ Board members. The notational balloting period shall be 30 days. For the amendments to be adopted, 75% affirmative vote of the WEQ Board members with a minimum of 40% affirmative vote from each segment will be required. After the WEQ Board vote is taken and passes, the amendments must also be ratified by WEQ membership. For the amendments to be ratified, a minimum of 75% of the WEQ members returning ballots should vote affirmatively.

18.3 The foregoing notwithstanding, any actions taken under Section(s) 2.4, 7.5, or 10.5c of the WEQ Procedures shall be approved only in accordance with the provisions set forth in those Section(s); once so approved, such actions shall not be subject to, or require, any other or additional consideration under Section 18 of the WEQ Procedures.

19 Reserved

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As Amended and Approved by the NAESB WEQ Membership –November 12, 2007

Attachment A

NAESB WHOLESALE ELECTRIC QUADRANT

The NAESB Wholesale Electric Quadrant will be composed of six segments. Each segment will have seven seats on the Board of Directors and the Executive Committee. The organization for the segments is shown below:

- **Transmission:** Any entity engaged in the activity of owning, operating or controlling bulk electric transmission facilities in North America.

Sub-segments:	Muni/Coop	Number of Seats:	1
	Fed/State/Provincial		1
	IOU		2
	ITC		2
	At Large		1

- **Generation:** Any entity engaged in the activity of owning and/or operating wholesale electric generation facilities in North America.

Sub-segments:	Muni/Coop	Number of Seats:	1
	Fed/State/Provincial		1
	IOU		2
	Merchant		2
	At Large		1

- **Marketers/Brokers:** Any entity engaged in the activity of buying and selling wholesale electric power in North America on a physical or financial basis.

Sub-segments:	Muni/Coop	Number of Seats:	1
	Fed/State/provincial		1
	Not IOU affiliated		2
	IOU Affiliated		2
	At Large		1

- **Distribution/Load Serving Entities:** Any entity engaged in the activity of electric power sales and/or delivery to end use customers in North America, or any entity designated to represent a distribution utility.

Sub-segments:	Muni/Coop	Number of Seats:	2
	IOU		2
	Competitive Retailer *(not available to muni/coop, IOU or IOU affiliates)*		1
	Other *(not available to muni/coop, IOU or IOU affiliates)*		1
	At Large		1

- **End Users:** Any entity in North America that is an end use consumer of electricity, engages in electricity regulation, or represents customer interests, or any entity designated to represent an end user.

Sub-segments:	End Use (also in another segment)	Number of Seats:	1
	Regulator		1
	Residential/Commercial		1
	Large Industrial (not in other segments)		2
	End Use (Self Generation)		1
	At Large		1

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- **Independent Grid Operators/Planners:** Any entity in North America authorized by an appropriate governmental authority to operate as a regional transmission organization, independent system operator, independent tariff administrator or independent planning entity and which does not have a business or financial interest in any other WEQ segment.
  Sub-segments: None defined at this time 7

- **Technology & Services:** Any Entity in North America engaged in providing hardware and software applications and related technology services to the North American wholesale electric market.
  .Sub-segments: None defined at this time 7

Definitions:

- **IOU** Definition: An investor owned entity who has substantial business interest in owning and/or operating any two of the following three asset categories --- generation, transmission, distribution.

- **At Large** Definition: The At Large sub-segment within each segment is intended for regional reliability organizations, consultants, service companies, ~~information services and software companies,~~ law firms, and other such organizations that are not specifically encompassed in the other sub-segments for a given segment, and excludes the ISOs, RTOs and other independent grid operators and planners, and companies providing hardware and software applications and related technology services.~~.~~

Procedural Elements:

1. Entities may participate in multiple segments within WEQ.

2. "Sunrise." Sub-segment principles will continue. Sub-segments may be revisited at any time, but no later than three years. Changes to sub-segments require 75% affirmative from with segment, subject to other minimum participation and deadline requirements.

3. Fixed Annual Payment. All WEQ participants will pay a fixed annual payment. Annual payment should provide for required budget to administer the process to develop Standards. Exceptions must be approved by the NAESB Board.

4. Sub-segment population. NAESB WEQ will establish minimum number for populating sub-segments within a segment, including a deadline for such population.

5. Consultants. Contract consultants may be considered as an option for Standards drafting, contingent on identification of need and availability of sufficient funding.

6. Segment Blocking. If at any time a segment acts to block the adoption of any standard during an EC vote on such standard, the blocking action shall be referred to the WEQ board members. Following such referral, the WEQ board members may request that the EC members of the segment explain the rationale for their votes.

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NAESB UPDATE: VERSION 1.2 – RETAIL ELECTRIC AND RETAIL GAS QUADRANT (REQ/RGQ)
DECEMBER 1, 2009

ACTIONS TO BE APPLIED TO RETAIL VERSION 1.1 TO CREATE RETAIL VERSION 1.2:

Version 1.1 was published on June 30, 2009.

2009:

Final Actions:

2009 Retail Annual Plan Item 4/2009 WGQ Annual Plan Item 2.h/R08015 – Updated Trading Partner Agreement. (In review of the final action as applied to the version 1.1 publication, it was determined that confirming changes were not included in the final action for RXQ.7 - Internet Electronic Transport. As it was the intent of the Retail EC to include such changes, they have been applied to version 1.2.)

2009 Retail Annual Plan Item 4.a, Part 1 – Develop model business practices and procedures for responding to customer inquiries directed to distributors and/or suppliers and for notification of the other party – Ratified June 25, 2009 - http://naesb.org/member_login_check.asp?doc=fa_retail_2009_ap4a_part1.doc *(New Book 12)*

Attachments:

Model 12.4.1 http://naesb.org/member_login_check.asp?doc=fa_retail_2009_ap4a_part2_attach1.ppt

Model 12.4.2 http://naesb.org/member_login_check.asp?doc=fa_retail_2009_ap4a_part2_attach2.ppt

Model 12.4.3 http://naesb.org/member_login_check.asp?doc=fa_retail_2009_ap4a_part2_attach3.ppt

2009 Retail Annual Plan Item 6.e – Measurement & Verification (M&V) for Demand Response Programs – Ratified November 16, 2009 - http://naesb.org/member_login_check.asp?doc=fa_req_2009_retail_ap6e.doc (*New Book 13)*

Minor Corrections:

MC09029 – As noted in the minor correction, a review was made of the REQ/RGQ manuals and it was determined no changes were needed. http://naesb.org/pdf4/wgq_mc081709reqcom.doc

TIMELINE:

- Version 1.2 is scheduled for publication on December 31, 2009.
- To back into this date – all standards should be ratified by date of publication, and EC actions should be taken one month prior, to publication, all subcommittee actions should be taken three months prior to publication.

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

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NAESB UPDATE: VERSION 002.2 – WHOLESALE ELECTRIC QUADRANT (WEQ)
DECEMBER 1, 2009

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

Version 002.1 was published on March 11, 2009.

2009:

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 *(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 *(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 (*WEQ-001, WEQ-002, WEQ-003, WEQ-013)*

Recommendations:

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 – Ratification ballots due December 14, 2009 - http://naesb.org/member_login_check.asp?doc=weq_rat111209ballot.doc

2009 WEQ Annual Plan Item 5(b) – Modify NAESB definition to address internal inconsistencies and inconsistencies with the NERC glossary – Formal comment period ends December 14, 2009 - http://naesb.org/pdf4/weq_111209_reqcom.doc

2009 WEQ Annual Plan Items 5(a)(2), 5(i)/R08004/R09011 – Multiple Annual Plan Items affecting WEQ-011 Gas/Electric Coordination – Formal comment period ended November 2, 2009 - http://naesb.org/pdf4/weq_2009_api_5a2_5i_r08004_r09011_rec.doc

Attachments:

WEQ-001 (Redlined): http://naesb.org/pdf4/weq_2009_api_5a2_5i_r08004_r09011_rec_attach1.doc

WEQ-001 (Clean): http://naesb.org/pdf4/weq_2009_api_5a2_5i_r08004_r09011_rec_attach2.doc

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

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NAESB UPDATE: VERSION 002.2 – WHOLESALE ELECTRIC QUADRANT (WEQ)
DECEMBER 1, 2009

Minor Corrections:

Minor Correction for WEQ-001 to be applied to versions 002.1 and 002.2 submitted by JT Wood, Southern Company and approved by the WEQ Executive Committee on October 27, 2009. - http://naesb.org/pdf4/weq_mc111209_reqcom.doc Comment period ends November 30, 2009 *(Effective date December 14, 2009)*

TIMELINE:

- Version 002.2 is scheduled for publication end of first quarter 2010.
- 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 – WHOLESALE GAS QUADRANT (WGQ)
DECEMBER 1, 2009

ACTIONS TO BE APPLIED TO WGQ VERSION 1.9 TO CREATE WGQ VERSION 2.0:

Version 1.9 was published on September 30, 2009.

2009:

Final Actions:

2009 Annual Plan Item 3/2009 Annual Plan Item 2(a)/R07009 – Update Model ISDA North American Gas Annex, November 2004 to correspond to the updated Base Contract for Sale and Purchase of Natural Gas, dated September 5, 2005, in accordance with NAESB WGQ Request No. R07009 as adopted by the WGQ Executive Committee on October 29, 2009 - http://naesb.org/member_login_check.asp?doc=model_isda_addendum102909.pdf *(This is a model and does not require member ratification)*

Recommendations:

R09017 – Develop a new ISDA Gas Confirmation Form for use with the ISD Gas Annex based on the current Confirmation Form under the NAESB Base Contract for Sale and Purchase of Natural Gas – Formal comment period ended November 23, 2009 - http://naesb.org/pdf4/wgq_102309reqcom.doc

Minor Corrections:

MC09032 Minor Correction to the Canadian Addendum, dated August 2, 2007 (NAESB Standard 6.3.1.CA) as submitted by K. Sappenfield, Chair, WGQ Contracts Subcommittee - http://naesb.org/pdf4/wgq_mc111209reqcom.doc Comment period ends November 30, 2009 *(Effective date December 14, 2009)*

TIMELINE:

- Version 2.0 is scheduled for publication no earlier than November 1, 2010 and no later than November 30, 2010.
- 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.

WEQ OASIS Progress Report

Based on WEQ 2009 Annual Plan As of November 6, 2009

2008 Annual Plan Item	2009 Annual Plan Item	Annual Plan Item	Scheduled	Underway	Concept Discussion	Draft Recommen-dation	Sub-committee Review	Post Informal Comments	Review Comments	Sub-committee Final Review	Sub-committee Approval	NAESB Clean-up	Post for Formal Comments	EC Passed	Ratified
2.a.i.1	2.a.i.1	Use of OASIS to Make Electronic Requests to Des													
2.a.i.2	2.a.i.2	Ability to Query Requests to Designate and Termin													
2.a.iii.3	2.a.i.3	Masking of Designated Network Resource Operati													
2.a.iii.4	2.a.i.4	Procedural Requirements for Submitting Designatio													
2.a.iii.5	2.a.i.5	Specify How Designated Network Service Informat													
2.a.iii.6	2.a.i.6	Set Forth the Treatment of OASIS Requests when t													
2.a.iii.7	2.a.i.7	Procedural Requirements for Submitting Both Temp													
2.a.iii.8	2.a.i.8	Procedures for Submitting and Processing Requests													
2.a.iv.1	2.a.ii.1	Pre-Emption													
2.a.iv.2	2.a.ii.2	Document procedures used to implement the displac													
2.a.iv.3	2.a.ii.3	Revisions to Standard 9.7													
2.a.v.1	2.a.iii.1	Paragraph 1377 The coordination of requests acros													
2.a.v.2	2.a.iii.2	Re-Bid Of Partial Service across Multiple Transmi													
	2.a.iii.3	Group DNR requests from a system with point-to-p													
2.a.vi.1	2.a.iv.1	Paragraph 1390 of Order 890 Review existing busi													
2.a.vi.2	2.a.iv.2	Paragraphs 1627 of Order 890 The posting of addit													
2.a.vi.3	2.a.iv.3	Redispatch Cost Posting to allow for posting of thir													
2.b.i.1	2.b.i.1	The processing of transmission service requests, w													
3.a.ii	3.a.i	Network Services: Determine and develo													
3.a.v	3.a.iii	Document procedures used to implement													
3.a.vi.2	3.a.iv.1	Eliminate Masking of TSR tag source and sink whe													
3.a.vi.4	3.a.iv.2	Initiate standard that eliminates the disparity of pos													
3.a.vi.5	3.a.iv.3	Enhance the TSR result postings to allow showing													
3.b.ii	3.b.ii	Develop PKI standards for OASIS.													
6.c.1	5.a.1	OASIS Consistency Changes (R08001, R08002, R													
6.n	5.d	Consistent with ¶51 of FERC Order No. 8													
	5.g	Correct WEQ 013-2.6.7.2 - Resale off OA													
	5.h	Add language to WEQ-001-4 Online Neg													
provisional 5	provisional 2	Develop business practices for allocating													

LEGEND:

Progress legend

- Completed prior to October 2009 EC Meeting
- Completed since October 2009 EC Meeting

AP item legend

- 890 Work Plan
- Normal Annual Plan Items
- New Items Added

2009 AP item legend

- AP items linked to 9.7
- AP items linked to nits
- AP items linked to R05019
- AP items linked to services across multiple TP
- AP items linked to R05026
- AP items that stand alone

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TO: Demand Side Management/Energy Efficiency Subcommittee and Interested Industry Participants

FROM: Cory Galik Cummings, Staff Attorney

RE: Draft Minutes of DSM/EE Subcommittee Meeting – November 2, 2009

DATE: November 9, 2009

WEQ/REQ Demand Side Management/Energy Efficiency Subcommittee
November 2, 2009 – 10:00 AM to 4:00 PM Eastern
Draft Minutes

1 and 2. Opening Remarks/Administrative

Ms. Kiselewich opened the meeting and welcomed the meeting participants. Ms. Cummings read the antitrust guidelines. Participants introduced themselves in the room and on the phone.

Mr. Loper moved, seconded by Ms. Hindes, to adopt the agenda as drafted. The motion passed without objection.

The DSM-EE Subcommittee reviewed the minutes from the September 30, 2009 meeting. Mr. Rodriquez moved, seconded by Mr. Precht, to adopt the minutes. The motion passed without objection.

3. Update from the Wholesale Electric Demand Response Work Group on the development of more technical M&V standards

Mr. Breidenbaugh provided the update. Since the last subcommittee meeting the wholesale demand response work group has met twice to review the IRC matrix, which describes the various programs of the ISO/RTOs. The work group has focused the way in which the ISO/RTOs currently perform M&V on the products they provide, beginning with Maximum Base Load in energy and capacity products and Baseline Type I and II in energy products. The ultimate goal is to complete the review of the matrix to determine where common approaches may be developed.

In February, the WEQ EC gave the wholesale demand response work group the task of developing a scope. Several attempts have been made to determine the scope of the work group but no agreement has been reached. At the last WEQ EC meeting the wholesale demand response work group asked for guidance on this issue and Ms. York created an EC DR Task Force to develop the scope of the work group. The task force consists of one EC member from each segment of the quadrant, Alan Johnson, Alan Pritchard, Cathy Wesley, Roy True, Luann Westerfield and Daryl McGee. The co-chairs of the work group have agreed to proceed in accordance with the direction received from this task force. The EC DR Task Force will have their work complete prior to the next wholesale demand response work group meeting on November 19.

Ms. McQuade urged participants to review the FERC NOPR and comments that were received.

4. Discussion of the next steps for the retail demand response work group and the results of the Retail Electric Executive Committee vote and member ratification for the Retail Demand Response Recommendation

The Retail EC met on October 2, 2009 to review and vote on the retail demand response recommendation. The EC accepted several non-substantive amendments to the recommendation and approved the recommendation as modified via notational ballot and it is currently out for ratification. The EC reviewed the remaining comments and voted to reject Summit Blue's comments that were not specific enough to be addressed and a comment to restrict the standards to only dispatchable products and services. They also voted to send the comments submitted by the Association of Home Appliance Manufacturers to the Smart Grid task force, as that was a more appropriate group to address those concerns. The rest of the comments will be sent back to the retail demand response work group for further review. If the retail demand response work group makes changes to the standards, then those changes will be voted upon by the Retail ECs. Mr. Newcomb will continue to chair the retail demand response work group.

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5. Update from the Energy Efficiency Task Force

Mr. Winkler reviewed the task force work paper and the technical specifications necessary to verify the performance of demand resources listed on the second page of the document. PJM and ISO New England have M&V standards already enforced in their capacity products, which may be a good starting point for wholesale standards to be created by NAESB. PJM and ISO New England are currently the only ISO/RTOs allow energy efficiency to participate as a demand response in their energy products.

Ms. Michals presented a slideshow presentation on the regional EM&V forum. The purpose of the project is to develop common consistent protocols or guidelines for estimating and reporting energy efficiency savings, costs and emission impacts. The project has the potential to be helpful to NAESB as the energy efficiency standards are developed. For wholesale energy efficiency there are non-NAESB standards used in two capacity markets but the retail standards may be more complicated to develop because there are many retail jurisdictions. It will be important to recognize the different policy and market needs. The KEMA project referenced in the slide show involves New England, New York, New Jersey, Maryland, Washington DC, California, Oregon and Canada (with a focus on Ontario).

A question arose regarding the level of detail NEEP is hoping to gain from these projects. The goal of the NEEP project is to develop examples of measures and recommended guidelines based on best practices. NAESB standards are not designed to set policy; the model business practices and technical standards are developed to implement policy that others have set or have been determined by the market.

Ms. McQuade explained the NAESB process to those in the meeting that were unfamiliar with it. In the NAESB standards development process the wholesale and retail quadrants develop standards or model business practices the same way. Careful records are kept during the development process so interested parties can review how decisions were made. The request for the development of the retail energy efficiency standards began with a request from the North Carolina Public Utility Commission.

6. Next Steps and Meetings

Volunteers to co-chair the retail energy efficiency work group include Kevin Warren, Julie Michals, Deanna Kirn, Rodney Sobin and Joe Loper.

Volunteers to co-chair the wholesale energy efficiency work group include Joe Loper, Pat McDonald, Gene Fry, Doug Smith and David Jacobson.

Participants were encouraged to reach out to other interested parties in an effort to increase diversity, especially in leadership roles. The NAESB office will begin scheduling the energy efficiency work group conference calls as soon as the co-chair lists are finalized.

Ms. McQuade also provided an update on the Smart Grid activities. Much of the work NAESB is doing in demand side management will be impacted by the standards created for the Smart Grid. NAESB has been actively involved in the Smart Grid efforts and was assigned priority action plans 3, 4 and 9 for price modeling, distributed energy resources and demand response. The smart grid task force is currently developing use cases which may become model business practices. There is a large distribution list that any interested party can join to monitor the progress of the task force. There is a smaller exploder list for the drafting participants, who are meeting twice a week. There is a Smart Grid meeting in Denver in November where NAESB will provide an update on the use cases it is developing.

7. Adjourn

Mr. Loper moved to adjourn the meeting at 2:22 pm Eastern.

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8. Participants

Attendee	Organization	Attendance
Dan Barbieri	KEMA	Phone
Aaron Breidenbaugh	EnerNOC	In Person
Bruce Cambell	Energy Connect	In Person
Cory Cummings	NAESB	In Person
Niko Dietsch	EPA	Phone
Brett Feldman	Constellation NewEnergy	Phone
Adrien Ford	PJM	Phone
Gene Fry	Northeast Utilities	Phone
Terri Grabiak	Allegheny Energy	Phone
Debbie Hayes	DTE Energy	Phone
Cheryl Hindes	BGE/AEIC	In Person
David Jacobson	National Grid	Phone
David Kathan	FERC	In Person
Deanna Kirn	Dominion	Phone
Ruth Kiselewich	BGE	In Person
David Koogler	Dominion	Phone
Pete Langben	PJM	Phone
Ken Laughlin	Viridity Energy	Phone
Huilan Li	Maryland Public Service Commission	Phone
Joe Loper	Alliance to Save Energy	In Person
Joe Marone	Southern California Edison	Phone
Bruce McAlister	FERC	In Person
Paul McCurley	NRECA	In Person
Rae McQuade	NAESB	In Person
Monica Nevius	CEE	Phone
Rip Newcomb	Dominion	Phone
Sig Peplowski	NYS PSC	Phone
Megan Pomeroy	United Illuminating	Phone
Donna Pratt	NYISO	Phone
Phil Precht	BGE	In Person
Cassandra Robinson	Allegheny Power	Phone
Andy Rodriquez	NERC	In Person
Mark Rogers	Southwest Power Pool	Phone
Ken Schisler	EnerNOC	In Person
Doug Smith	National Grid	Phone
Rodney Sobin	Alliance to Save Energy	In Person
Heather Takle	Amaresco	Phone

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Attendee	Organization	Attendance
Veronica Thomason	NAESB	In Person
Kevin Warren	EVO/IPMVP/Warren Energy	In Person
Paul Wattles	ERCOT	Phone
Mark Westendorf	Midwest ISO	Phone
Eric Winkler	ISO New England	Phone
Damon Xenopoulos	Brickfield, Burchette, Ritts & Stone, PC	Phone

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE

For Quadrant: **Wholesale and Retail Electric Quadrant**

Requesters: **National Institute of Standards and Technology**

Request No.:

Request Title: **Priority Action Plan 03 – Use Cases and Requirements**

1. RECOMMENDED ACTION:

X	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:		Per Recommendation:	
X	Initiation	X	Initiation
	Modification		Modification
	Interpretation		Interpretation
	Withdrawal		Withdrawal
	Principle		Principle
	Definition		Definition
X	Business Practice Standard	X	Business Practice Standard
	Document		Document
	Data Element		Data Element
	Code Value		Code Value
	X12 Implementation Guide		X12 Implementation Guide
	Business Process Documentation		Business Process Documentation

3. RECOMMENDATION

SUMMARY:

The document included as part of this recommendation is not final products, but do contain a great deal of information which the NAESB SGTF believes is beneficial to distribute to the community at large for their review. The document is still a work in progress and as co-chairs, we would encourage all stake holders to join or continue their participation in the efforts of the SGTF.

Please note that the use cases for price signals for DR for PAP 03 are contained in the PAP 09 use cases.

As work continues over the next two months, it is expected that the document will become more comprehensive. We look forward to your comments and your continued participation in our collective efforts.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE

For Quadrant:	**Wholesale and Retail Electric Quadrant**
Requesters:	**National Institute of Standards and Technology**
Request No.:	
Request Title:	**Priority Action Plan 03 – Use Cases and Requirements**

RECOMMENDED STANDARDS:

Common Price Communication Model Use Cases Release 0.1 – Attachment 1:
http://www.naesb.org/pdf4/smart_grid_ssd111709reqcom_pap3_a1.doc

4. SUPPORTING DOCUMENTATION

a. Description of Request:

On September 30, 2009 the National Institute of Standards and Technology officially assigned NAESB the responsibility to develop Requirements and Use Cases pertinent to Priority Action Plan items 3, 4 and 9. A complete description of each item is available on the NIST Web site located at http://collaborate.nist.gov/twiki-sggrid/bin/view/_SmartGridInterimRoadmap/PriorityActionPlans

This recommendation specifically pertains to PAP 03[1], "Develop Common Specification for Price and Product Definition".

b. Description of Recommendation:

See Section 3 Summary

c. Business Purpose:

This recommendation has been developed in response to a request from NIST to provide use cases and requirements germane to the development of a common specification for price and product definition.

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

[1] http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/PAP03PriceProduct

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE

For Quadrant: **Wholesale Electric and Retail Electric Quadrant**
Requesters: **National Institute of Standards and Technology**
Request No.:
Request Title: **Priority Action Plan 04 – Use Cases and Requirements**

1. RECOMMENDED ACTION:

___X___ 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:

___X___ Initiation
_____ Modification
_____ Interpretation
_____ Withdrawal

_____ Principle
_____ Definition
___X___ Business Practice Standard
_____ Document
_____ Data Element
_____ Code Value
_____ X12 Implementation Guide
_____ Business Process Documentation

Per Recommendation:

___X___ Initiation
_____ Modification
_____ Interpretation
_____ Withdrawal

_____ Principle
_____ Definition
___X___ Business Practice Standard
_____ Document
_____ Data Element
_____ Code Value
_____ X12 Implementation Guide
_____ Business Process Documentation

3. RECOMMENDATION

SUMMARY:

RECOMMENDED STANDARDS:

4. SUPPORTING DOCUMENTATION

a. Description of Request:

DRAFT

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE

For Quadrant:	**Wholesale Electric and Retail Electric Quadrant**
Requesters:	**National Institute of Standards and Technology**
Request No.:	
Request Title:	**Priority Action Plan 04 – Use Cases and Requirements**

On September 30, 2009, the National Institute of Standards and Technology officially assigned NAESB the responsibility to develop Requirements and Use Cases pertinent to Priority Action Plan items 3, 4 and 9. A complete description of each item is available on the NIST Web site located at http://collaborate.nist.gov/twiki-sggrid/bin/view/_SmartGridInterimRoadmap/PriorityActionPlans

This recommendation specifically pertains to PAP 04[1], "A Common Scheduling Mechanism for Energy Transactions".

b. Description of Recommendation:

This recommendation contains a set of requirements relating to the use of date and time based data elements that are used in transactions for Demand Response Programs. This information is being provided to NIST in order to aid in the development of a standard representation for date/time based data elements, possibly an XML representation of ICalendar[2].

Although there are many other areas where date/time based data elements are used in energy industry transactions this recommendation is limited in scope to only those date/time based data elements that are utilized in Demand Response Programs.

b. Background on requirements:

Smart grid interfaces must communicate between domains, that is between different business and consumer entities with different values and approaches (ontologies). Such interfaces must be simplifed tobare essentials, and be understandable by parties with different backgrounds and expectations.

To achieve cross-domain understandability, and thereby enhance interoperation, smart grid transactions must use semantic models from different areas developed by different standards groups. Each of these vacabularies is most fully definedin one area. We have agreed, within the NIST process, to use the vabularies from the apropriate domain experts to compose the message that flow between domains on the smart grid.

For purposes of this document, we define transactions as grid events that occur between domains, or whose effects and outcomes must be communicated between domains. This activity makes no assertions about any other events.

Smart grid transactions communicate three classes of information. They describe events used within the power management and distribution fo the grid.They invoke financial or business transactions concerning those transactions. All transactions, or potential transactions on the grid. Per agreement, all semantics relating to Power Management will use the Common Information Model (CIM) from IEC TC57. All financial and market semantics will be based upon the defintions found in ISO 20022 (Financial Documents) and in their most common expression,

[1] http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/PAP04Schedules
[2] http://tools.ietf.org/html/rfc5545

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE

For Quadrant:	**Wholesale Electric and Retail Electric Quadrant**
Requesters:	**National Institute of Standards and Technology**
Request No.:	
Request Title:	**Priority Action Plan 04 – Use Cases and Requirements**

FIX. All elements relating to schedule and interval will be expressed in the Calsify (IETF Calendar) standards used by the enterprise and most commonly expressed in iCalendar, iTIP, and iMIP. THe purpose of this approach is th eincrease interoepration and understanding between domains.

The group primarily associated with the development of interoperable enterpise date, time, and interval standards for the IETF is the Calendaring and Schedule Consortium (CALCONNECT). CALCONNECT and OASIS will work together to define the common communication of date time and interval to meet the needs of smart grid transaction communications as well as for building systems integration, enterprise interaction, and financial transactions. This commonality is anticipated to reduce barriers to interoperation and thereby to expand participation in DR and DER.

The purpose of this action is to define the requirements for standard communication of date, time, schedule, and interval by smart grid actors, with particular attention to demand response (DR). These reuirements will be submitted to the OASIS and CALCONNECT technical committee to define the applicable communication standards to support them.

Date and Time Based Data Elements Utilized in Demand Response Programs

The representative instances named in the table below are representative of those used in smart grid transactions. Although some instancess may have be seen under other names in different markets, standardizing those names is beyond the scope of this activity, which is limited to standarizing communication of of date, time, schedule, and interval. These instances are sufficiently diverse to define the range of communications that must be supported by the standard.

Representative Instances	Description
Adjustment Window	The period of time prior to a Demand Response Event used for calculating a Baseline Adjustment.
Advance Notification	One or more communications to Demand Resources of an impending Demand Response Event in advance of the actual event.
Baseline Window	The window of time preceding and optionally following, a Demand Response Event over which the electricity consumption data is collected for the purpose of establishing a Baseline.
Demand Response Event	The time periods, deadlines and transitions during which Demand Resources perform. The Program Administrator should specify the duration and applicability of a Demand Response Event. All deadlines, time periods and transitions may not be applicable to all Demand Response products or services.
Deployment	The time at which a Demand Resource begins reducing Demand on the system in response to an instruction.

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RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE

For Quadrant: **Wholesale Electric and Retail Electric Quadrant**
Requesters: **National Institute of Standards and Technology**
Request No.:
Request Title: **Priority Action Plan 04 – Use Cases and Requirements**

Representative Instances	Description
Deployment Period	The time in a Demand Response Event beginning with the Deployment and ending with the Release/Recall
Meter Data Recording Interval	The time between electricity meter consumption recordings
Meter Data Reporting Deadline	The maximum allowed time from the end of a Demand Response Event (Normal Operations) to the time when meter data is required to be submitted for performance evaluation and settlement. The Meter Data Reporting Deadline may be either relative (a number of hours/days after Normal Operations) or fixed (a fixed calendar time, such as end-of-month).
Normal Operations	The time following Release/Recall at which a Program Administrator may require a Demand Resource to have returned its Load consumption to normal levels, and to be available again for Deployment
Performance Window	The period of time in a Demand Response Event analyzed by the Program Administrator to measure and verify the Demand Reduction Value for a Demand Resource.
Ramp Period	The time between Deployment and Reduction Deadline, representing the period of time over which a Demand Resource is expected to achieve its change in Demand
Recovery Period	The time between Release/Recall and Normal Operations, representing the window over which Demand Resources are required to return to their normal Load.
Reduction Deadline	The time at the end of the Ramp Period when a Demand Resource is required to have met its Demand Reduction Value obligation
Release/Recall	The time when a Program Administrator notifies a Demand Resource that the Deployment Period has ended or will end
Sustained Response Period	The time between Reduction Deadline and Release/Recall, representing the window over which a Demand Resource is required to maintain its reduced net consumption of electricity
Telemetry Interval	The time unit between communications between a Demand Resource or Demand Response Provider and a Program Administrator

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RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE

For Quadrant:	**Wholesale Electric and Retail Electric Quadrant**
Requesters:	**National Institute of Standards and Technology**
Request No.:	
Request Title:	**Priority Action Plan 04 – Use Cases and Requirements**

Requirements for Date and Time Usage

Demand Response Programs employ a combination of absolute dates/times, absolute periods (range) of dates/times, relative dates/times, recurring dates/times, absolute intervals and absolute durations in order to communicate temporal information pertaining to demand response transactions. Demand Response Programs must also accommodate time zone variations, leap years and leap seconds and the use of daylight savings time. Any calendaring/scheduling standard that is applicable to Demand Responsde programs must be capable of supporting this range of requirements.

An incomplete, but representative, set of representations is provided below: These representations are sufficient to handle the representative instances listed above. The sample data included is a non-normative representation; it is included clarify the expectation of information that will be in the standard.

Type of Representation	Representative Instance	Sample Data
Absolute date/time	Effective start date Effective start date and time	2009-11-01 2009-11-01T01:00:00-Z
Absolute Periods (range)	Deployment Period	2009-11-01T01:00:00-Z/ 2009-11-02T24:00:00-Z
Relative date/time (time-point)	Reduction Deadline	30 minutes from a specified point in time
Recurring date/time	Market Closing	Every day at 12:00 noon
Absolute Interval	Meter Data Recording Interval System Frequency	Every 5 minutes 60 cycles per second
Absolute Duration	Outage Duration Minimum Run Time	2 days 4 hours

It is an additional requirement that all schedule and interval communications be able to express precission required. For example,one may be able to perform within five minutes, or one may be required ot perform within five nilliseconds of the agreed upon time.

c. Business Purpose:

This recommendation has been developed in response to a request from NIST to provide use cases and requirements germane to the use of dates/times within a broad spectrum of energy

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RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE

For Quadrant:	**Wholesale Electric and Retail Electric Quadrant**
Requesters:	**National Institute of Standards and Technology**
Request No.:	
Request Title:	**Priority Action Plan 04 – Use Cases and Requirements**

transactions. The scope of this effort has been limited to Demand Response Programs in order to meet NIST's deadline for this effort.

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RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE

For Quadrant: **Wholesale and Retail Electric Quadrant**

Requesters: **National Institute of Standards and Technology**

Request No.:

Request Title: **Priority Action Plan 09 – Use Cases and Requirements**

1. RECOMMENDED ACTION:

X	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:		Per Recommendation:	
X	Initiation	X	Initiation
	Modification		Modification
	Interpretation		Interpretation
	Withdrawal		Withdrawal
	Principle		Principle
	Definition		Definition
X	Business Practice Standard	X	Business Practice Standard
	Document		Document
	Data Element		Data Element
	Code Value		Code Value
	X12 Implementation Guide		X12 Implementation Guide
	Business Process Documentation		Business Process Documentation

3. RECOMMENDATION

SUMMARY:

The documents included as part of this recommendation are not final products, but do contain a great deal of information which the NAESB SGTF believes is beneficial to distribute to the community at large for their review. The documents are still a work in progress and as co-chairs, we would encourage all stake holders to join or continue their participation in the efforts of the SGTF.

For PAP 09, there are three documents. These documents are:

1. Framework for Integrating DR and DER Models release 0.1
2. Retail DR Use Cases release 0.1
3. Wholesale DR Use Cases release 0.1

Per PAP 09, this deliverable must cover both the wholesale market place and the retail sector. However, these areas are in separate quadrants within the NAESB community. As a result, while the interaction between wholesale and retail must be clearly identified in these documents, the

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE

For Quadrant:	**Wholesale and Retail Electric Quadrant**
Requesters:	**National Institute of Standards and Technology**
Request No.:	
Request Title:	**Priority Action Plan 09 – Use Cases and Requirements**

areas specific to wholesale and retail also need to be separated for the Executive Committee approval process. As a result, we are presenting the two areas in separate documents at this time.

The Framework document is an introductory piece that lays out the entire arena that is PAP 09. It ties the thinking of the two accompanying documents together. The second document, Retail DR Use Cases, is primarily focused on retail use cases, but can easily be expanded to show the connection to the wholesale market place. Within the retail sector there are two basic situations: retail competition or no retail competition. The no retail competition case could have been shown as the most simple retail competition case with only a single retail entity. At this time, there may still be some overlap of wholesale actors in the retail use cases, but these use cases will be cleaned up before the recommendations from the SGTF are finalized.

There is some overlap between the retail and wholesale documents, and the reviewer may find some inconsistencies in actor names or glossary definitions, but these items will be worked out in later releases but prior to final recommendation release. The Wholesale DR Use Case document details sixty possible use cases, and has developed several business process models. The work on this document now is to continue to review use cases and determine if the present business process models support all the use cases. The wholesale use cases could also be easily expanded to show the connection to the retail sector. Presently the document shows at least one, retail entity in each use case.

As work continues over the next two months, it is expected that these documents will become more cohesive. We look forward to your comments and your continued participation in our collective efforts.

RECOMMENDED STANDARDS:

1. Framework for Integrating DR and DER Models release 0.1 – Attachment 1: http://www.naesb.org/pdf4/smart_grid_ssd111709reqcom_pap9_a1.doc
2. Retail DR Use Cases release 0.1 – Attachment 2: http://www.naesb.org/pdf4/smart_grid_ssd111709reqcom_pap9_a2.doc
3. Wholesale DR Use Cases release 0.1 – Attachment 3: http://www.naesb.org/pdf4/smart_grid_ssd111709reqcom_pap9_a3.doc

4. SUPPORTING DOCUMENTATION

a. Description of Request:

On September 30, 2009 the National Institute of Standards and Technology officially assigned NAESB the responsibility to develop Requirements and Use Cases pertinent to Priority Action

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE

For Quadrant:	**Wholesale and Retail Electric Quadrant**
Requesters:	**National Institute of Standards and Technology**
Request No.:	
Request Title:	**Priority Action Plan 09 – Use Cases and Requirements**

Plan items 3, 4 and 9. A complete description of each item is available on the NIST Web site located at http://collaborate.nist.gov/twiki-sggrid/bin/view/_SmartGridInterimRoadmap/PriorityActionPlans

This recommendation specifically pertains to PAP 09[1], "Standard DR and DER Signals".

b. Description of Recommendation:

See Section 3 Summary

c. Business Purpose:

This recommendation has been developed in response to a request from NIST to provide use cases and requirements germane to the development of standard DR and DER signals.

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

[1] http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/PAP09DRDER

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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 WGQ Annual Plan as Approved by the Board on September 24, 2009
with Changes Recommended by the WGQ EC on October 29, 2009

Item Description	Completion[i]	Assignment[ii]
1. Damage Reporting for Natural Gas Pipeline Facilities		
Review and develop standards as appropriate to support posting of information as noted in Docket No. RM06-18-000, Order No. 682 and Docket No. RM06-18-001, Order No. 682-A. Review transmission line damage reporting to identify commonality and apply as appropriate. Status: Complete	2nd Q, 2009	Interpretations
2. Contracts Activities		
a. Update ISDA Gas Annex to correspond to the updated NAESB Base Contract for Sale and Purchase of Sale of Natural Gas, dated September 5, 2006. Status: Complete	3rd Q, 2009	Contracts
b. Revise the Trading Partner Agreement TPA by removing the Exhibits from the agreement and relegate such information as contained in the Exhibits to operational worksheet(s), (R08015). Status: Complete	2nd Q, 2009	Joint Retail BPS/WGQ Contracts
b. Develop a new ISDA Gas Confirmation Form for use with the ISDA Gas Annex based on the current Confirmation Form under the NAESB Base Contract for Sale and Purchase of Natural Gas (NAESB Standard 6.3.1, 9/5/06), (R09017). Status: Complete	4th Q, 2009	WGQ Contracts
3. Gas-Electric Interdependency		
Respond to directives of FERC Order No. 698 issued 6-25-07, Docket Nos. RM05-5-001 and RM96-1-027 as related to the NAESB reports submitted in Docket No. RM05-28-000:		
a. ¶ 56 of Order No. 698: "… Under the Commission regulations, the releasing shipper is responsible for clearly setting out the terms and conditions of the release and that would include the means for implementing the formula rate. This is also an issue on which NAESB can develop standards to ensure that such releases can be processed quickly and efficiently." (emphasis added)		
i.) Prepare fully staffed recommendation Status: Complete	2nd Q, 2009	BPS, IR/Technical
b. Provide for Enhanced Granularity for Public Utilities in Identifying Critical Operational Flow Orders. (R08020) Status: Underway	4th Q, 2009	BPS, IR/Tech jointly with WEQ BPS

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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 WGQ Annual Plan as Approved by the Board on September 24, 2009
with Changes Recommended by the WGQ EC on October 29, 2009

Item Description	Completion[i]	Assignment[ii]
4. Promotion of a More Efficient Capacity Release Market		
Review FERC Order Nos. 712 and 712A and modify NAESB standards as appropriate (Docket Nos. RM08-1-000, RM08-1-001).		
a. Develop business practice standards as appropriate Status: Complete	2nd Q, 2009	BPS/Interpretations
b. Prepare fully staffed recommendation Status: Complete	2nd Q, 2009	BPS, Interpretations, IR and Technical
5. Capacity Release EDI Review		
Review capacity release transactions upload and related responses to determine suitability for EDI		
a. Conduct Technical Investigation and prepare report for BPS consideration Status: Complete	4th Q, 2009	IR/Technical
b. Develop Business Practice Standards as appropriate Status: Underway	4th Q, 2009	BPS
c. Prepare fully staffed recommendation Status: Not Started (Adjustments may be made to Completion Dates based on report from Item 5.a)	3rd Q, 2010	BPS, IR/Technical
6. Customer Security Administration		
Review and develop standards as appropriate to support Customer Security Administration Standards (Comment Submittal, 10-29-07) Status: Not started (Scoping to take place 4th Q, 2009 after which a Completion Date will be set)	2010	BPS
7. Gas Quality Reporting		
a. Respond to directives of FERC Docket No. RP07-504-000: ¶ 10 "… develop a uniform set of standards regarding the posting of rapidly changing gas quality information applicable to those pipelines which are required by their tariffs to do so." (Docket No. RP07-504-000) Status: Complete	1st Q, 2009	BPS
b. Prepare fully staffed recommendation Status: Complete	2nd Q, 2009	IR/Technical
8. Standards of Conduct		
Review and develop standards, as appropriate, to support posting of standards of conduct information pursuant to Docket No. RM07-1-000, Order No. 717 Status: Complete	1st Q, 2009	BPS

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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 WGQ Annual Plan as Approved by the Board on September 24, 2009
with Changes Recommended by the WGQ EC on October 29, 2009

Item Description	Completion[i]	Assignment[ii]
9. Electronic Delivery Mechanisms		
Review minimum technical characteristics in Appendices B, C, and D of the WGQ QEDM Manual, and make changes as appropriate. Status: Complete	1st Q, 2009	EDM
Program of Standards Maintenance & Fully Staffed Standards Work		
Business Practice Requests	Ongoing	Assigned by the EC[iii]
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[4]
Interpretations for Clarifying Language Ambiguities	Ongoing	Assigned by the EC[4]
Maintenance of Code Values and Other Technical Matters	Ongoing	Assigned by the EC[4]
Provisional Activities		
Respond to requests as received that are related to Docket No. AD06-11-000 (Market Transparency Reporting).		

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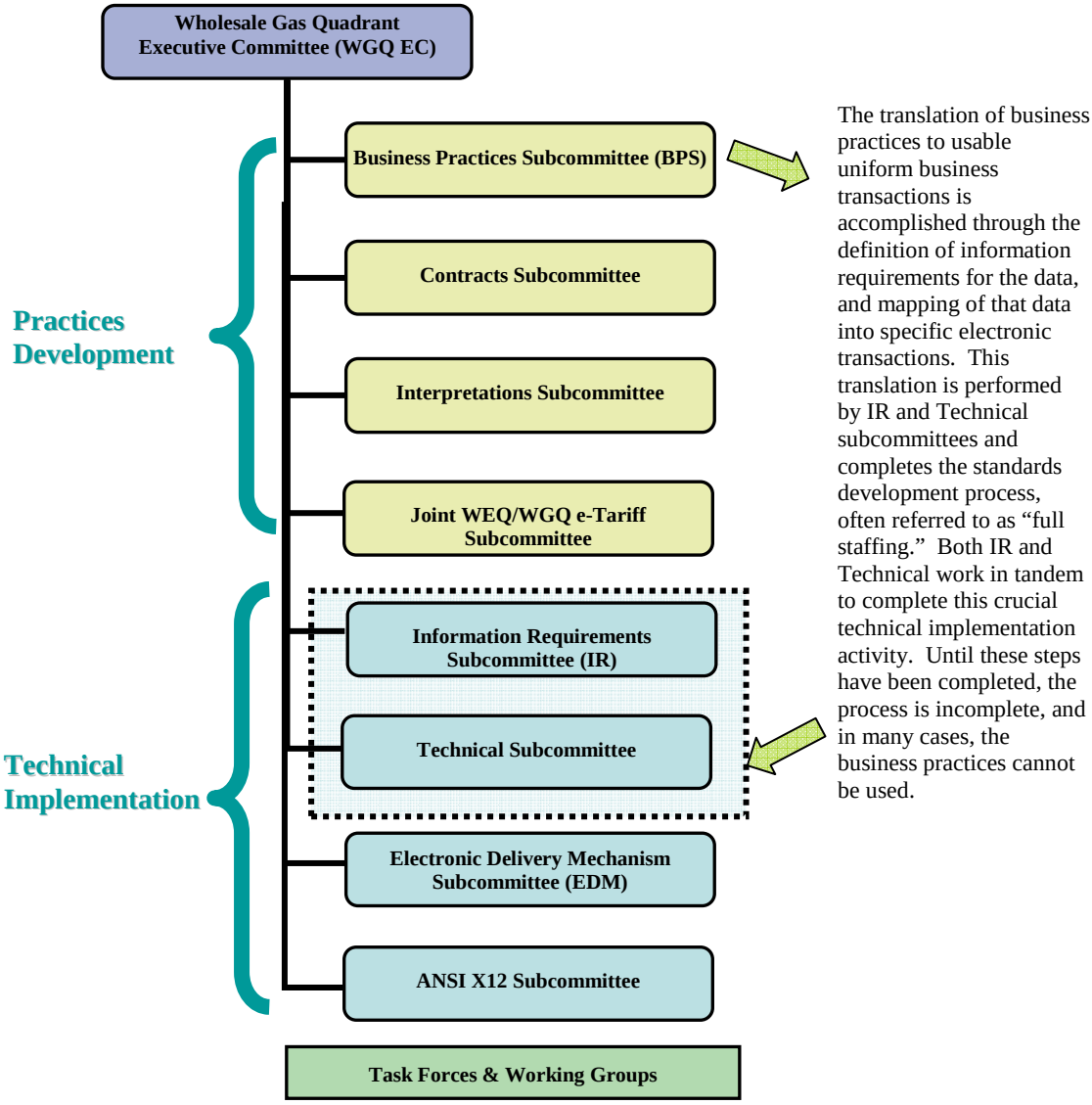

NAESB 2009 WGQ EC and Subcommittee Leadership:

Executive Committee: Jim Buccigross, Chair and Mike Novak, Vice-Chair
Business Practices Subcommittee: Kim Van Pelt, Valerie Crockett, Steve Abbey 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
Joint WEQ/WGQ e-Tariff Subcommittee: Keith Sappenfield, Jane Daly

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End Notes WGQ 2009 Annual Plan:

[i] 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.

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

[iii] The EC assigns maintenance of existing standards on a request-by-request basis.

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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 ANNUAL PLAN for the RETAIL GAS and ELECTRIC QUADRANTS
Approved by the NAESB Board of Directors on September 24, 2009
With Changes Suggested by the Retail ECs on October 28, 2009

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

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2009 ANNUAL PLAN for the RETAIL GAS and ELECTRIC QUADRANTS
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With Changes Suggested by the Retail ECs on October 28, 2009

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

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Approved by the NAESB Board of Directors on September 24, 2009
With Changes Suggested by the Retail ECs on October 28, 2009

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

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Item Number & Description[1]	Completion[2]	Assignment[34]
• training and identification of Supplier marketing representatives; • protocols for Supplier in-person and telephone contacts with customers; • added measures for protecting non-English speaking customers; and • Processes for handling customer complaints and resolving disputes arising from Supplier marketing activities. Status: Not Started		
Program of Standards Maintenance & Fully Staffed Standards Work[5]		
Business Practice Requests	Ongoing	Assigned by the EC
Information Requirements and Technical Mapping of Business Practices	Ongoing	Assigned by the EC
Ongoing Interpretations for Clarifying Language Ambiguities	Ongoing	Assigned by the EC
Ongoing Maintenance of Code Values and Other Technical Matters	Ongoing	Assigned by the EC
Ongoing Development and Maintenance of Definitions	Ongoing	Glossary

Provisional Activities

Joint Effort:

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

Modify TPA as necessary.

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

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

Retail Electric Quadrant Effort Only:

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

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

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

Retail Gas Quadrant Effort Only:

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

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

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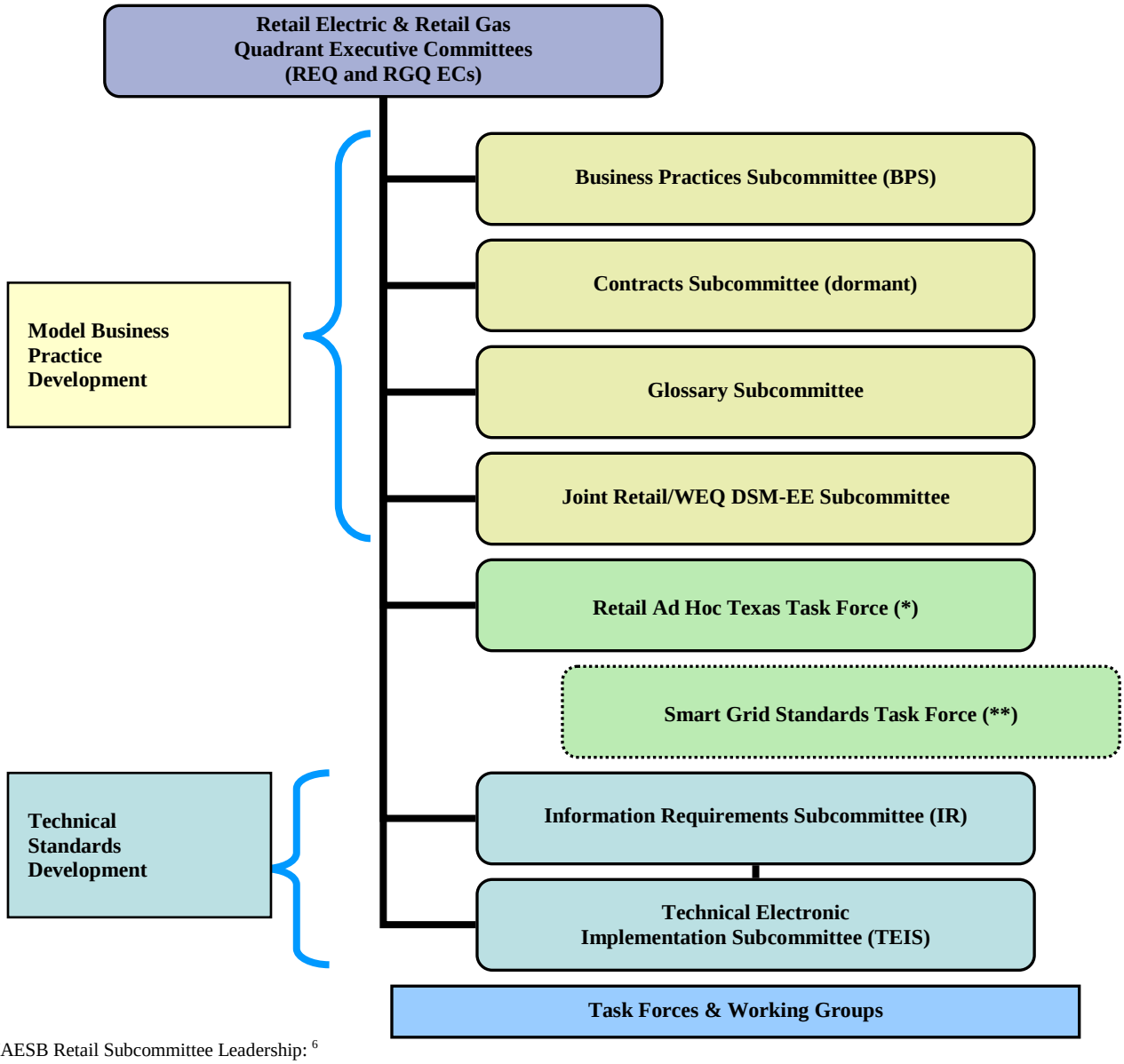

NAESB Retail Subcommittee Leadership: [6]

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

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

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

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Retail 2009 Annual Plan End Notes:

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

[2] 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.

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

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

[5] 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.

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

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

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Item Description	Completion[1]	Assignment[2, 3]

2 Develop business practice standards in support of the FERC RM05-25-000 and RM05-17-000 (OATT Reform)

a) Develop version 2 business practice standards to better coordinate the use of the transmission system among neighboring transmission providers. Such business practice standards would be based on recommendations from NERC's Long Term ATC/AFC Task Force and would involve revised procedures for the ATC calculation and/or revised protocols as determined by the final order.

Status: Underway

Development is using joint standards development process with NERC. Request R050004 was expanded to include the Order No. 890 (Docket Nos. RM05-25-000 and RM05-17-000) and Order No. 890-A (Docket Nos. RM05-17-001, 002 and RM05-25-001, 002), "Preventing Undue Discrimination and Preference in Transmission Services," issued April 11, 2007).

i) Group 3: Network Service On OASIS

1.	Use of OASIS to Make Electronic Requests to Designate and Terminate Network Resource Status: Underway	1st Q, 2010	OASIS
2.	Ability to Query Requests to Designate and Terminate Network Resources and Allow for Queries of All Information Provided with Designation Requests Status: Underway	1st Q, 2010	OASIS
3.	Masking of Designated Network Resource Operating Restrictions and Generating Cost Information Status: Underway	1st Q, 2010	OASIS
4.	Procedural Requirements for Submitting Designations over new OASIS Functionality Status: Underway	1st Q, 2010	OASIS
5.	Specify How Designated Network Service Informational Postings are Posted on OASIS Status: Underway	1st Q, 2010	OASIS
6.	Develop standards for the treatment of OASIS Requests when the Customer Fails to Provide the Necessary Attestation Status: Underway	1st Q, 2010	OASIS
7.	Procedural Requirements for Submitting Both Temporary and Indefinite Terminations of Network Resources Status: Underway	1st Q, 2010	OASIS

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Item Description	Completion[1]	Assignment[2, 3]
8. Procedures for Submitting and Processing Requests for Concomitant Evaluations of Transmission Requests and Temporary Terminations Status: Underway	1st Q, 2010	OASIS
ii) Group 4: Pre-Emption; Request No. R05019; and Revisions to Standard 9.7		
1. Pre-Emption Status: Not Started	3rd Q, 2010	OASIS
2. Request No. R05019 Status: Not Started	3rd Q, 2010	OASIS
3. Modify WEQ-001-9.7 Rollover Rights for Redirect on a Firm Basis Status: Completed	2nd Q, 2009	OASIS
iii) Group 5: Paragraph 1377 – Group 5 work should precede group 4 work		
1. Paragraph 1377 Status: Not Started	2nd Q, 2010	OASIS
2. Re-Bid Of Partial Service across Multiple Transmission Providers' Systems Status: Not Started	2nd Q, 2010	OASIS
3. Group DNR requests from a system with point-to-point requests on other systems for synchronization Status: Not Started	2nd Q, 2010	OASIS
iv) Group 6: Miscellaneous (Paragraphs 1390 and 1627 of Order 890)		
1. Paragraph 1390 of Order 890 Status: Not Started	4th Q, 2010	OASIS
2. Paragraphs 1627 of Order 890 Status: Not Started	4th Q, 2010	OASIS
3. Redispatch Cost Posting to allow for posting of third party offers of planning redispatch services. Status: Not Started	4th Q, 2010	OASIS

b) Develop the needed business practices as companion to the NERC standards for ATC related efforts

i) Develop standards to support existing Request No. R05004.

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Item Description	Completion[1]	Assignment[2, 3]
1. The processing of transmission service requests, which use TTC/ATC/AFC, in coordination with NERC changes to MOD 001 where the allocation of flowgate capability based on historical Network Native Load impacts the evaluation of transmission service requests, requiring the posting of those allocation values in conjunction with queries of service offerings on OASIS Status: Underway	1st Q, 2010	OASIS
3 Develop business practices standards to improve the current operation of the wholesale electric market and develop and maintain business practice and communication standards for OASIS and Electronic Scheduling		
a) Develop and/or maintain business practice standards as needed for OASIS and electronic scheduling. Specific items to address include:		
i) Network Services: Determine and develop needed business practice standards or other support is needed to support use of OASIS for Network Service transactions (R04006E). (Related to AP 2(a)(iii)) Status: Underway	1st Q, 2010	OASIS
ii) Registry (TSIN): Determine and develop needed business practice standards to support the registry functions currently supported by NERC (R04037, R06027).		
1) Work with the NAESB counsel to develop a confidentiality agreement, (R07013) Status: Completed	4th Q, 2009	JESS
2) Transition the TSIN Registry from NERC to NAESB as the enhanced Electric Industry Registry (EIR), (R06027). Status: Underway	2010	NAESB/NERC Administration, JESS
iii) Document procedures used to implement the displacement/interruption terms of the Pro Forma tariff (R05019). Status: Deleted as a duplicate of 2009 AP item 2.a.ii.2	2011	OASIS
iv) Make remaining incremental enhancements to OASIS as an outgrowth of the NAESB March 29, 2005 conference on the future of OASIS (R05026). Scoping statement completed by SRS and assignments made to BPS and OASIS.		
1) Eliminate Masking of TSR tag source and sink when requested status is denied, withdrawn refused, displaced, invalid, declined, annulled or retracted Status: Not Started	2011	OASIS

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Item Description	Completion[1]	Assignment[2, 3]
2) Initiate standard that eliminates the disparity of posting "sensitive" information. This standard should also include procedures of user certification that allows access to this class of information. Status: Underway (upon further development of this item by NAESB, a completion date will be determined)	2011	OASIS
3) Enhance the TSR result postings to allow showing of (i) limiting transmission elements and (ii) available generation dispatch options that would allow acceptance of reservation request. Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2011	OASIS
v) Develop, coordinate interoperability testing, and implement e-Tag version 1.8.1 Status: Underway – 20090716 discussed rough time frames laid out needs test plans drafted	1st Q, 2010	JESS
vi) Transition e-Tag Specification and schema to NAESB Status: Complete. Version 1.8.1 will be identified as the NAESB Electronic Tagging Functional Specification	1st Q, 2009	JESS
vii) Review and correct the WEQ-004 Coordinate interchange Business Practice Standard as noted during the development of the e-Tag 1.8 development process. Status: Completed. Recommendation was voted out of the JESS on September 2, 2009. Formal comment period closed on October 8, 2009.	3rd Q, 2009	JESS
viii) Review and correct WEQ-004 Coordinate Interchange Business Practice Standard as needed based on activities in NERC Project 2008-12, Coordinate Interchange Standards Revisions and supporting EOP-002-2 R4 and R6. [note: this is a new item] Status: Not started – dependent on NERC activity (upon initiation of this item by NAESB, a completion date will be determined)	2010	JESS
b) Develop and/or maintain standard communication protocols and cyber-security business practices as needed.		
i) Develop PKI certification program for e-Tag and OASIS Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2010	Board Certification Program Committee
ii) Develop PKI standards for OASIS. Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2011	OASIS

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	Item Description	Completion[1]	Assignment[2, 3]
	iii) Develop Industry Implementation Plan for meeting PKI Standard requirements for e-tagging. Status: Underway. Full e-Tag implementation (server & client side) is linked to the transition of the Registry from NERC to NAESB and NAESB implementation. 20090716 – server-side certificate underway – change TSIN to accept https URLs with a September 2009 target.	TBD – dependent on item above (i) and EIR	JESS
c)	Develop needed business practice standards for organization/company codes for NAESB standards – and address current issues on the use of DUNs numbers. Status: Underway (upon further development of this item by NAESB, a completion date will be determined) Common code usage is linked to the transition of the Registry from NERC to NAESB	2009	NAESB Staff with WEQ support
d)	Develop business practice standards in support of FERC Order No. 717 Status: Completed	1st Q, 2009	BPS
4	**Review and develop business practices standards to Demand Response, Demand Side Management and Energy Efficiency Programs** Review and develop needed model business practices for a standardized method for quantifying benefits, savings, cost avoidance and/or the reduction in energy demand and usage derived from the implementation of demand side management and energy efficiency programs. This effort will include demand side response, energy efficiency programs and metering, including the 'curtailment service provider' program.		
a)	Develop matrix and business practice standards for measurement and verification for demand response products and services in ISO/RTO footprint areas. Status: Completed	4th Q, 2008	WEQ Section of the Joint WEQ/REQ DSM-EE Subcommittee
b)	Develop more detailed technical standards for the measurement and verification of demand response products and services in ISO-RTO footprint areas, including examples to be developed to support item 4(a) above. Status: In Progress	2010	WEQ Section of the Joint WEQ/REQ DSM-EE Subcommittee
c)	Develop preamble for business practice standards for measurement and verification for demand response and energy efficiency programs. Status: Completed	3rd Q, 2009	Joint WEQ/REQ DSM-EE Subcommittee
d)	Develop glossary for business practice standards Status: Ongoing	Ongoing	Joint WEQ/REQ DSM-EE Subcommittee

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	Item Description	Completion[1]	Assignment[2, 3]
e)	Support retail development of matrix and model business practice standards for measurement and verification for demand response programs Status: Completed	3rd Q, 2009	Retail Section of Joint WEQ/REQ DSM-EE Subcommittee
f)	Develop business practice standards to measure and verify energy reductions that are made to comply with a Renewable Portfolio Standard that included energy efficiency or a stand-alone Energy Efficiency Portfolio Standard. Status: Upon further review, the task force has determined this work will be completed under Annual Plan Item 4g.	Combined with 4g	WEQ Section/Joint WEQ/REQ DSM-EE Subcommittee
g)	Develop business practice standards used to measure and verify reductions in energy and demand from energy efficiency in wholesale and retail markets.[1] Status: Underway (An estimated completion date will be established in 4th Q after the new working group has been formalized)	2010	WEQ Section/Joint WEQ/REQ DSM-EE Subcommittee
h)	Develop business practice standards for cap and trade programs for green house gas Status: Moved to Provisional Item 8. This item will not be addressed until Congress has addressed pending legislation.	Moved to Provisional Item 8	Joint WEQ/REQ DSM-EE Subcommittee
5	**Maintain existing body of Version 2 standards**		
a)	Make consistency changes to Version 1.0 standards as directed by the WEQ Leadership Committee on December 12, 2007 (R08001 – BPS, OASIS, R08002 - OASIS, R08003 - OASIS - BPS, R08004, R08005 - OASIS)		
	1) OASIS Consistency Changes (R08001, R08002, R08003, R08005) Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2011	OASIS
	2) Gas / Electric Communication Consistency Changes (R08004) Status: Completed. WEQ BPS coordinated recommendation with WGQ BPS. WEQ BPS voted recommendation out of subcommittee on September 28, 2009.	3rd Q, 2009	WEQ BPS / WGQ BPS

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

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	Item Description	Completion[1]	Assignment[2, 3]
b)	Modify NAESB definitions to address internal inconsistencies and inconsistencies with the NERC glossary. Revise existing NAESB glossary/definition of terms to be applicable to entire set of WEQ Business Practices. (http://www.naesb.org/pdf3/weq_ec051308w3.doc) Status: Completed Subcommittee co-chairs are developing WEQ-000 Definition of Terms/Acronyms to replace definitions being included in each NAESB Business Practice.	4th Q, 2009	BPS/OASIS/SRS/JESS Co-chairs
c)	Develop standards to allow for registered Market Operators to request changes to the Market Level profile of Implemented Interchange (R06006) Status: Complete	1st Q, 2009	JESS
d)	Consistent with ¶51 of FERC Order No. 890-A, add AFC and TFC values to the "System_Attribute" data element of the NAESB Standard WEQ-003: OASIS S&CP Data Dictionaries. (R08011) Status: Not Started This Standards Request was assigned to the OASIS in May 2008.	2011	OASIS
e)	Provide for Enhanced Granularity for Public Utilities in Identifying Critical Operational Flow Orders. (R08020) Status: WEQ Complete/WGQ In Progress. This Standards Request was assigned to the BPS in August 2008 (upon initiation of this item by NAESB, a completion date will be determined)	2nd Q, 2009	BPS jointly with WGQ BPS
f)	Synchronize Bidding Credit Requirements for FTR, TCC and CRR (R08025) Posting of collateral is an important issue for financial marketers. Most financial marketers and smaller entities are required to post cash for FTR transactions, while most utilities post unsecured credit. Therefore, the timing for posting collateral is especially crucial to financial marketers. There are two posting periods for FTRs: 1. The Bidding Requirement: Credit must be posted with FTR bids and these monies are held until bids are cleared. 2. The Holding Requirement: After bids are cleared and FTRs awarded, collateral is required for the amount of time the FTR is active. Status: Withdrawn by requester	4th Q, 2009	SRS (Scoping)
g)	Correct WEQ 013-2.6.7.2. – Resale off OASIS (R08027) Status: Not Started	TBD	OASIS
h)	Add language to WEQ-001-4 Online Negotiation and Confirmation process to clarify Table 4-3 (R09003) Status: Not Started	TBD	OASIS
i)	Change Power Plant Operator to Power Plant Gas Coordinator (R09011) Status: Completed. WEQ BPS coordinated recommendation with WGQ BPS. WEQ BPS voted recommendation out of subcommittee on September 28, 2009.	4th Q, 2009	WEQ BPS/WGQ BPS

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NORTH AMERICAN ENERGY STANDARDS BOARD
NAESB 2009 WEQ Annual Plan as approved by the Board on September 24, 2009
With Revisions Made on October 9, 2009 and as recommended by WEQ Leadership

PROVISIONAL ITEMS

1 Develop and or modify business practices related to support of NERC effort on the NERC Resources and Transmission Adequacy (Project 2009-05 Resource Adequacy Assessment).

2 Develop business practices for allocating capacity among requests received during a submittal window Order 890-A (Docket Nos. RM05-17-001, 002 and RM05-25-001, 002 - Paragraph 805).

3 Determine any needed NAESB action in support of the Interchange Distribution Calculator (IDC) and develop any necessary standards.

4 Prepare recommendations for future path for TLR (equity concerns) in concert with NERC, which may include alternative congestion management procedures[4]. Work on this activity is dependent on completing 2009 WEQ Annual Plan 1.c.i (Parallel Flow Visualization/Mitigation for Reliability Coordinators in the Eastern Interconnection).

5 Develop complementary standards that align with NERC Project 2008-01 Voltage and Reactive Control, for which a white paper is expected after the 2009 SAR is processed.

6 Develop NAESB business practices as needed to complement NERC reliability standards for FAC-012 and FAC-013.

7 Determine NAESB action needed to support FERC Action Plan for Smart Grid Technology.

8 Develop business practice standards for cap and trade programs for green house gas (See action item 4h).

9 Conduct assessment to determine if Electric Industry Requirements documented in WEQ-011 Gas / Electric Coordination should be considered reliability requirements and transition to NERC.

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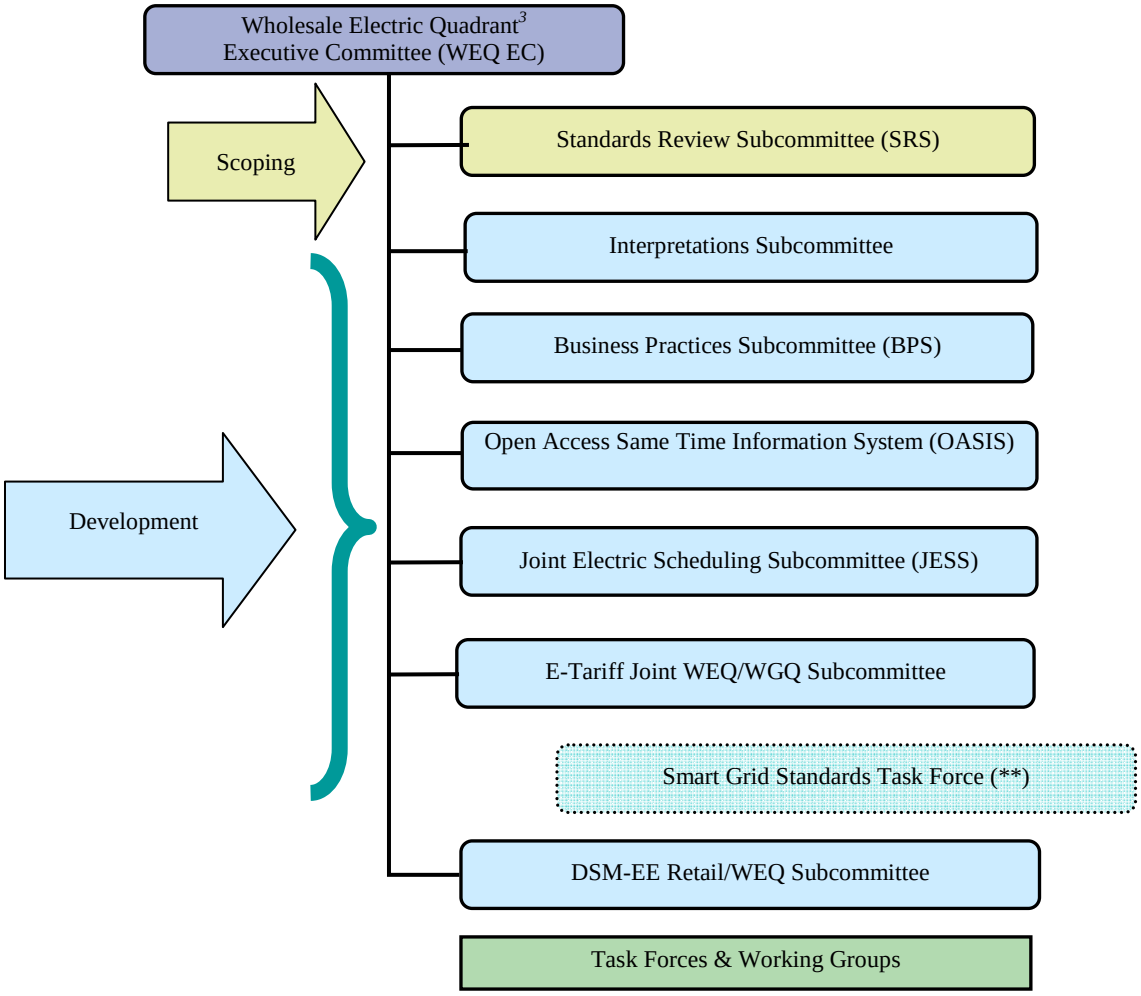

NAESB WEQ EC and Subcommittee Leadership:
Executive Committee: Kathy York (WEQ EC Chair) and Matthew Goldberg (WEQ EC Vice Chair)
Standards Review Subcommittee: Narinder Saini, Ed Skiba
Interpretations Subcommittee: Robert Schwermann
Business Practices Subcommittee & Task Forces: Jim Busbin (TLR), Ed Skiba
Open Access Same Time Information System (OASIS): Paul Sorenson, J.T. Wood, Marcie Otondo
Joint Electric Scheduling Subcommittee (JESS): Bob Harshbarger (NAESB), Jim Hansen (NERC)
e-Tariff Joint WEQ/WGQ Subcommittee (e-Tariff): Jane Daly (WEQ), Keith Sappenfield (WGQ)
DSM-EE Joint Retail/WEQ Subcommittee: Ruth Kiselewich and David Koogler (Retail), Roy True and Paul Wattles (WEQ)

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

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End Notes WEQ 2009 Annual Plan:

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

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

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

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

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NORTH AMERICAN ENERGY STANDARDS BOARD
Proposed 2010 Annual Plan for the Wholesale Gas Quadrant
To Be Presented to the NAESB Board of Directors on December 10, 2009

Item Description	Completion[1]	Assignment[2]
1. Gas-Electric Interdependency		
Respond to directives of FERC Order No. 698 issued 6-25-07, Docket Nos. RM05-5-001 and RM96-1-027 as related to the NAESB reports submitted in Docket No. RM05-28-000:		
a. Provide for Enhanced Granularity for Public Utilities in Identifying Critical Operational Flow Orders. (R08020) Status: Underway	4th Q, 2009	BPS, IR/Tech jointly with WEQ BPS
2. Promotion of a More Efficient Capacity Release Market		
Review FERC Order Nos. 712 and 712A and modify NAESB standards as appropriate (Docket Nos. RM08-1-000, RM08-1-001).		
a. Review recent FERC order on flow-through of Discounted or Negotiated Rates (RP09-70 et al, October 15, 2009) and develop business practice standards as appropriate Status: Not Started	2nd Q, 2010	BPS/Interpretations
3. Capacity Release EDI Review		
Review capacity release transactions upload and related responses to determine suitability for EDI		
a.. Develop Business Practice Standards as appropriate Status: Underway	4th Q, 2009	BPS
b. Prepare fully staffed recommendation Status: Not Started (Adjustments may be made to Completion Dates based on report from Item 3.a)	3rd Q, 2010	BPS, IR/Technical
4. Customer Security Administration		
Review and develop standards as appropriate to support Customer Security Administration Standards (Comment Submittal, 10-29-07) Status: Not started (Scoping to take place 1st Q, 2010 after which a Completion Date will be set)	2010	BPS
5. Electronic Delivery Mechanisms		
Review minimum technical characteristics in Appendices B, C, and D of the WGQ QEDM Manual, and make changes as appropriate. Status: Not Started	3rd Q, 2010	EDM
6. FERC Strategic Plan FY2009-2014		
a. For the FERC Strategic Plan, under the section "Promote efficient design and operation of natural gas facilities", review and develop standards as needed to support EBB posting requirements regarding waste heat feasibility (NAESB Standard No. 4.2.23)	2010	BPS

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NORTH AMERICAN ENERGY STANDARDS BOARD
Proposed 2010 Annual Plan for the Wholesale Gas Quadrant
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Item Description	Completion[1]	Assignment[2]
7. Common Codes		
a. Review common code specifications for common location codes and determine if changes are necessary to the existing specifications to support both intrastate and interstate pipelines	4th Q, 2010	BPS
Program of Standards Maintenance & Fully Staffed Standards Work		
Business Practice Requests	Ongoing	Assigned by the EC[3]
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[3]
Interpretations for Clarifying Language Ambiguities	Ongoing	Assigned by the EC[3]
Maintenance of Code Values and Other Technical Matters	Ongoing	Assigned by the EC[3]
Maintenance of Contracts Standards	As Requested	Contracts Subcommittee
Maintenance of eTariff Standards	As Requested	Assigned by the EC[3]
Provisional Activities		
1 Review and develop standards as needed, related to Docket No. RM09-2-000, (Contract Reporting Requirements of Intrastate Natural Gas Companies).		
2 Review and develop standards as needed related to the FERC Strategic Plan 2009-2014		

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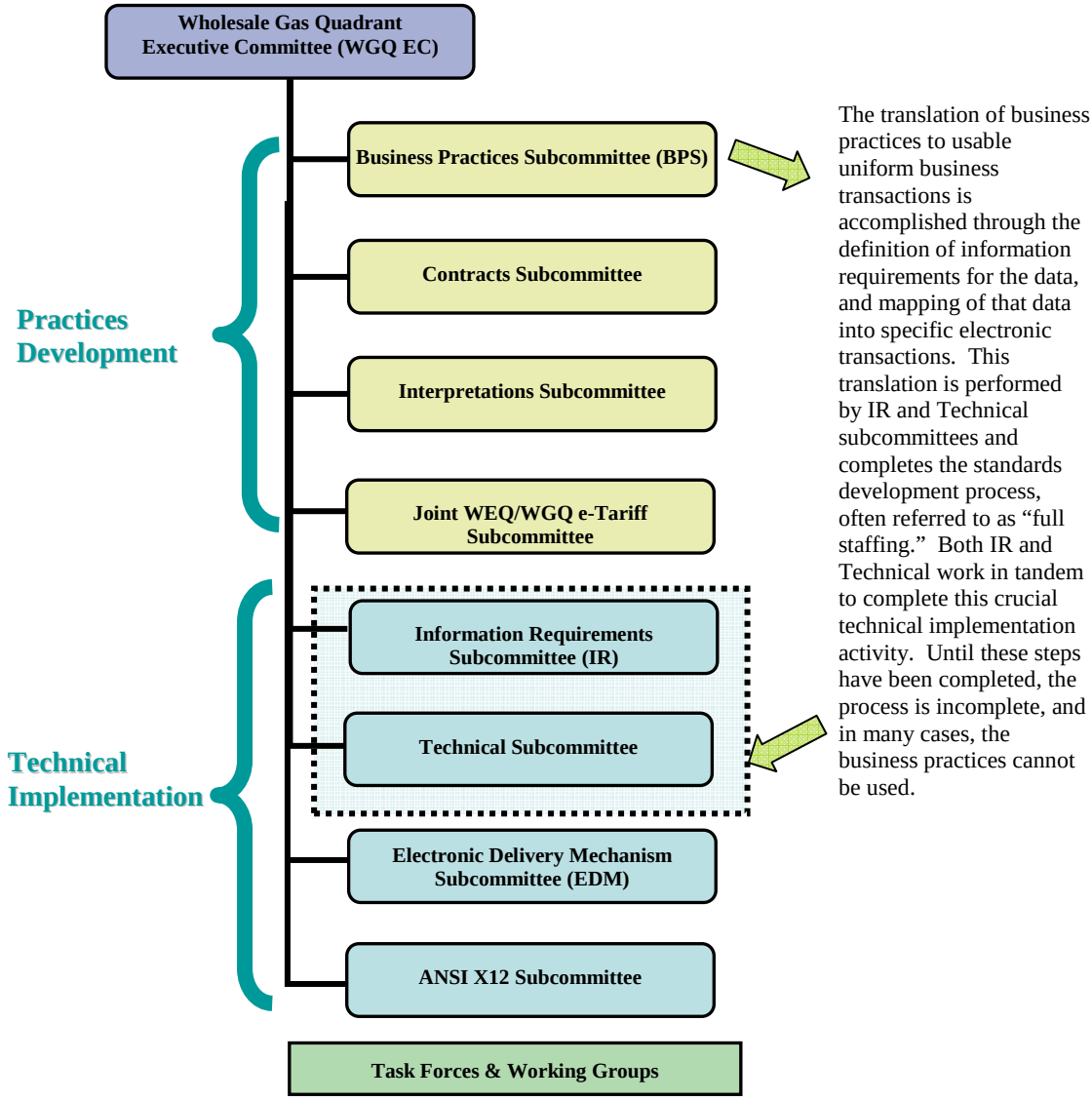

NAESB 2009 WGQ EC and Subcommittee Leadership:

Executive Committee: Jim Buccigross, Chair and Mike Novak, Vice-Chair
Business Practices Subcommittee: Kim Van Pelt, Valerie Crockett, Steve Abbey 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
Joint WEQ/WGQ e-Tariff Subcommittee: Keith Sappenfield, Jane Daly

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End Notes, WGQ 2010 Annual Plan:

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

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

[3] The EC assigns maintenance of existing standards on a request-by-request basis.

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NORTH AMERICAN ENERGY STANDARDS BOARD
Proposed 2010 ANNUAL PLAN for the RETAIL GAS and ELECTRIC QUADRANTS
To Be Presented to the NAESB Board of Directors on December 10, 2009

	Item Number & Description[1]	Completion[2]	Assignment[34]
1.	Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 10: Customer Enrollment, Drop and Account Information Change (Non Texas Model)		
	a.. For the Non-Texas Registration Agent Model Status: Not Started for non-Texas Registration Agent	4th Q, 2010	TEIS
2.	Develop NAESB Certification checklist criteria for Retail Quadrants to be used in the NAESB Certification Program. Status: Not Started. Dependent upon publication of Version 1.1 at a minimum, but more dependent upon completion of Customer Choice efforts.	2nd Q, 2010	Ad Hoc EC Certification Group
3.	Review and develop needed model business practices for a standardized method for quantifying benefits, savings, cost avoidance and/or the reduction in energy demand and usage derived from the implementation of demand side management and energy efficiency programs. This effort will include demand side response, energy efficiency programs and metering, including the 'curtailment service provider' program. Status: Underway		Joint WEQ/REQ DSM Subcommittee
	a. Develop more detailed technical standards for the measurement and verification of demand response products and services in ISO-RTO footprint areas. Status: Underway	2010	WEQ Section of the Joint WEQ/REQ DSM Subcommittee
	b. Develop glossary for business practice standards Status: Ongoing	Ongoing	Joint WEQ/REQ DSM Subcommittee
	c. Develop business practice standards used to measure and verify reductions in energy and demand from energy efficiency in wholesale and retail markets.[1] This includes developing business practice standards to measure and verify energy reductions that are made to comply with a Renewable Portfolio Standards that included energy efficiency or a stand-alone Energy Efficiency Portfolio Standard. Status Underway (An estimated completion date will be established in 1st Q 2010 after the new working group has been formalized)	2010	WEQ Section of the Joint WEQ/REQ DSM Subcommittee
	d. Develop model criteria and business practice standards that system operators can use to determine how demand response will be initiated, communicated, controlled, adjusted, measured and verified, including, where feasible, best practices for demand response products and procedures currently employed in organized wholesale electric markets." Status: Not Started	TBD	WEQ Section of the Joint WEQ/REQ DSM-EE Subcommittee
	e. Support the second phase of retail development of model business practice standards for demand response programs Status: Not started (noted as provisional in WEQ 2010 AP)	2010	REQ Section of the Joint WEQ/REQ DSM Subcommittee

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

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	Item Number & Description[1]	Completion[2]	Assignment[34]
4.	Billing and Payments		
	a. Develop Process Flows to be included as models in book 3 – billing and payments Status: Underway	2nd Q, 2010	BPS
	b. If the development of Process Flows indicate a gap in the model business practices, then develop new model business practices to address the gap. Status: Underway	2nd Q, 2010	BPS
5.	Model Business Practices User Guide Add a new section to Book 0 to describe what Books have been developed, how the Books are laid out, and revised the title of the Book to reflect the additions Status: Started	3rd Q, 2010	BPS
6.	Additional Registration Agent Processes		
	a. Review all existing Model Business Practices to determine if the Customer Information process is already covered, and if necessary develop any new Model Business Practices required Status: Underway	1st Q, 2010	BPS
	b. Review all existing Model Business Practices to determine if the disconnection and reconnection process is already covered, and if necessary develop any new Model Business Practices required. Status: Underway		
	i. Create MBPs for disconnection/reconnection initiated by the supplier Status: Underway	4th Q, 2009	BPS
	ii. Create MBPs for disconnection/reconnection initiated by the distribution company Status: Underway	2nd Q, 2010	BPS
7.	Supplier Certification Review Book 1 – Market Participant Interactions to determine if Supplier Certification is fully covered, and if necessary develop any new Model Business Practices required with the potential of moving all related Model Business Practices to a new Book Status: Not Started	4th Q, 2010	BPS
8.	Supplier Marketing Practices Develop Model Business Practices providing for a "Consumer Disclosure Statement" to be presented to residential and small commercial customers describing the Supplier's service offering and related contract provisions. This statement would also identify how certain Supplier-Customer interactions are conducted. Amongst the topics to be considered for inclusion on the statement would be the following: • the most important terms of the Supplier agreement, such as the contract's term and termination fee provisions; • training and identification of Supplier marketing representatives; • protocols for Supplier in-person and telephone contacts with customers; • added measures for protecting non-English speaking customers; and • Processes for handling customer complaints and resolving disputes arising from	4th Q, 2010	BPS

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	Item Number & Description[1]	Completion[2]	Assignment[34]
	Supplier marketing activities. Status: Not Started		
9.	Develop Smart Grid Wholesale and Retail Electric Standards		
	a. Develop Requirements and Use Cases for PAP 03 – Pricing Model	1st Q, 2010	Joint WEQ/REQ SGS Task Force
	b. Develop Requirements and Use Cases for PAP 04 – Scheduling Model	1st Q, 2010	Joint WEQ/REQ SGS Task Force
	c. Develop Requirements and Use Cases for PAP 09 – Demand Response/Distributed Energy Resources	1st Q, 2010	Joint WEQ/REQ SGS Task Force
10.	Additional Registration Agent Model 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.	3rd Q, 2010	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.	4th Q, 2010	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	2nd Q, 2010	IR/TEIS
	d. Develop Technical Electronic Implementation Standards and Data Dictionaries to support any Model Business Practices developed in (b) above	4th Q, 2010	IR/TEIS
11.	Master List of Defined Terms: Review the definitions of all Defined Terms in Book 0 – Master List of Defined Terms, including other Ratified Terms not yet published, and revise the definitions of all Defined Terms not specifically related solely to the competitive marketplace to broaden their applicability to conform to NAESB's expanded scope.	2nd Q, 2010	Glossary

Program of Standards Maintenance & Fully Staffed Standards Work[5]

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

Provisional Activities

Joint Effort:

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

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Item Number & Description[1]	Completion[2]	Assignment[34]
Modify TPA as necessary.		
Review security standards as may be deemed necessary, such as Public Key Infrastructure (PKI).		
Review existing body of model business practices for consistency and develop or modify model business practices as needed.		
Retail Electric Quadrant Effort Only:		
Retail Meter Data Validation, Editing & Estimating: Develop procedures for insuring the integrity and validity of retail customer metering data that is needed by utilities and suppliers for billing, etc. Issues related to unbundled or competitive metering are not to be considered.		
Settlement Process: Reconcile energy schedules and energy delivered by suppliers within a given market. Note: will need to be coordinated with the WEQ for the REQ.		
Develop business practice standards for cap and trade programs for green house gas (See action item 6h).		
Retail Gas Quadrant Effort Only:		
Examine Wholesale Gas Quadrant Non-EDM Standards for applicability to retail business practices.		
Settlement Process: Reconcile energy schedules and energy delivered by suppliers within a given market.		

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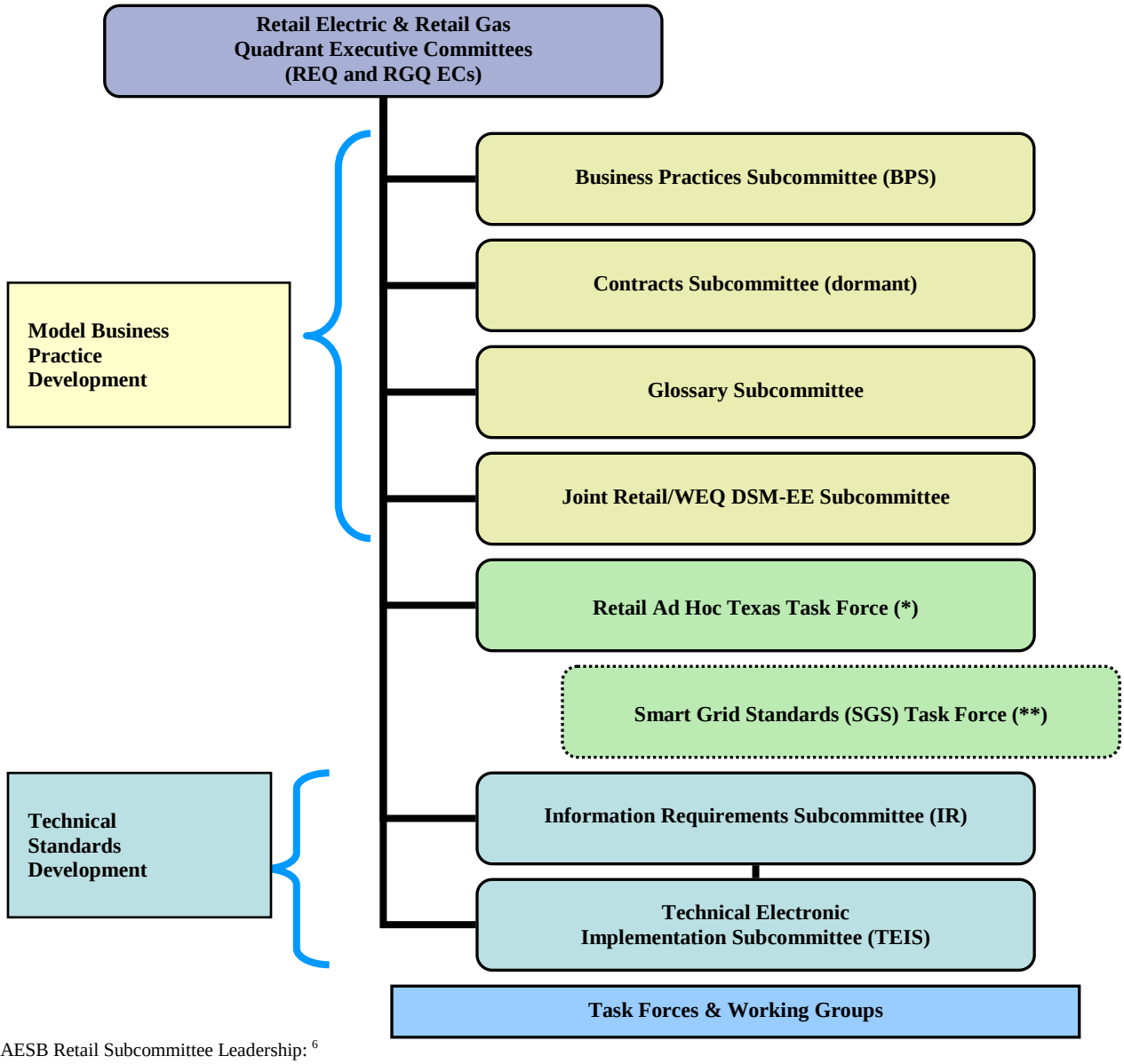

NAESB Retail Subcommittee Leadership: [6]

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

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

(**) The Smart Grid Task Force is a joint group of the retail electric and wholesale electric 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 to the NAESB Board Smart Grid Strategic Steering Committee. The group is chaired by Brent Hodges, Wayne Longcore and Robert Burke.

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Retail 2010 Annual Plan End Notes:

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

[2] 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.

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

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

[5] 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.

[6] 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
PROPOSED 2010 ANNUAL PLAN for the WHOLESALE ELECTRIC QUADRANT
To Be Presented to the NAESB Board of Directors on December 10, 2009

	Item Description	Completion[1]	Assignment[2]
1	**Develop business practices standards as needed to complement reliability standards**		
	Develop business practice standards to support and complement NERC reliability standards, NERC policies and NERC standards authorization requests (SARs) using the NERC/NAESB Coordination Joint Standards Development Process as appropriate. Current NAESB activities underway to develop business practice standards that are supportive of this annual plan item are:		
	a) Parallel Flow Visualization/Mitigation for Reliability Coordinators in the Eastern Interconnection. Note: Consideration should be given to provisional item 4. Work is being coordinated with the NERC IDC Working Group. Status: Started	2010	BPS
	b) Time Error and Inadvertent (BAL-004 and BAL-006) Coordination with NERC Status: Monitor. (Upon initiation of this item by NAESB. a completion date will be determined. Based on discussions with NERC staff regarding the Balancing Authority Controls Standards Drafting Team's timeline the completion date has been changed to tbd.)	TBD	TIMTF
	c) DCS and AGC (BAL-002 and BAL-005) Coordination with NERC Status Monitor. (Upon initiation of this item by NAESB. a completion date will be determined. Based on discussions with NERC staff regarding the Balancing Authority Controls Standards Drafting Team's timeline the completion date has been changed to tbd.)	TBD	TIMTF
2	**Develop business practice standards in support of the FERC RM05-25-000 and RM05-17-000 (OATT Reform)**		
	a) Develop version 2 business practice standards to better coordinate the use of the transmission system among neighboring transmission providers. Such business practice standards would be based on recommendations from NERC's Long Term ATC/AFC Task Force and would involve revised procedures for the ATC calculation and/or revised protocols as determined by the final order. Status: Underway Development is using joint standards development process with NERC. Request R050004 was expanded to include the Order No. 890 (Docket Nos. RM05-25-000 and RM05-17-000) and Order No. 890-A (Docket Nos. RM05-17-001, 002 and RM05-25-001, 002), "Preventing Undue Discrimination and Preference in Transmission Services," issued April 11, 2007).		
	i) Group 3: Network Service On OASIS		
	1) Use of OASIS to Make Electronic Requests to Designate and Terminate Network Resource Status: Underway	1st Q, 2010	OASIS

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NORTH AMERICAN ENERGY STANDARDS BOARD
PROPOSED 2010 ANNUAL PLAN for the WHOLESALE ELECTRIC QUADRANT
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Item Description	Completion[1]	Assignment[2]
2) Ability to Query Requests to Designate and Terminate Network Resources and Allow for Queries of All Information Provided with Designation Requests Status: Underway	1st Q, 2010	OASIS
3) Masking of Designated Network Resource Operating Restrictions and Generating Cost Information Status: Underway	1st Q, 2010	OASIS
4) Procedural Requirements for Submitting Designations over new OASIS Functionality Status: Underway	1st Q, 2010	OASIS
5) Specify How Designated Network Service Informational Postings are Posted on OASIS Status: Underway	1st Q, 2010	OASIS
6) Develop standards for the treatment of OASIS Requests when the Customer Fails to Provide the Necessary Attestation Status: Underway	1st Q, 2010	OASIS
7) Procedural Requirements for Submitting Both Temporary and Indefinite Terminations of Network Resources Status: Underway	1st Q, 2010	OASIS
8) Procedures for Submitting and Processing Requests for Concomitant Evaluations of Transmission Requests and Temporary Terminations Status: Underway	1st Q, 2010	OASIS
ii) Group 4: Pre-Emption; Request No. R05019		
1) Pre-Emption Status: Not Started	3rd Q, 2010	OASIS
2) Request No. R05019 Status: Not Started	3rd Q, 2010	OASIS
iii) Group 5: Paragraph 1377 – Group 5 work should precede group 4 work		
1. Paragraph 1377 Status: Not Started	2nd Q, 2010	OASIS
2. Re-Bid Of Partial Service across Multiple Transmission Providers' Systems Status: Not Started	2nd Q, 2010	OASIS

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Item Description	Completion[1]	Assignment[2]
3. Group DNR requests from a system with point-to-point requests on other systems for synchronization Status: Not Started	2nd Q, 2010	OASIS
iv) Group 6: Miscellaneous (Paragraphs 1390 and 1627 of Order 890)		
1) Paragraph 1390 of Order 890 Status: Not Started	4th Q, 2010	OASIS
2) Paragraphs 1627 of Order 890 Status: Not Started	4th Q, 2010	OASIS
3) Redispatch Cost Posting to allow for posting of third party offers of planning redispatch services. Status: Not Started	4th Q, 2010	OASIS
b) Develop the needed business practices as companion to the NERC standards for ATC related efforts		
i) Develop standards to support existing Request No. R05004.		
1) The processing of transmission service requests, which use TTC/ATC/AFC, in coordination with NERC changes to MOD 001 where the allocation of flowgate capability based on historical Network Native Load impacts the evaluation of transmission service requests, requiring the posting of those allocation values in conjunction with queries of service offerings on OASIS Status: Underway	1st Q, 2010	OASIS
3 Develop business practices standards to improve the current operation of the wholesale electric market and develop and maintain business practice and communication standards for OASIS and Electronic Scheduling		
a) Develop and/or maintain business practice standards as needed for OASIS and electronic scheduling. Specific items to address include:		
i) Network Services: Determine and develop needed business practice standards or other support is needed to support use of OASIS for Network Service transactions (R04006E). (Related to AP 2(a)(iii)) Status: Underway	1st Q, 2010	OASIS
ii) Registry (TSIN): Determine and develop needed business practice standards to support the registry functions currently supported by NERC (R04037, R06027).		
1) Transition the TSIN Registry from NERC to NAESB as the enhanced Electric Industry Registry (EIR), (R06027). Status: Underway	2010	NAESB/NERC Administration, JESS

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			Item Description	Completion[1]	Assignment[2]
	iii)		Document procedures used to implement the displacement/interruption terms of the Pro Forma tariff (R05019). Status: Deleted as a duplicate of 2009 AP item 2.a.ii.2	2011	OASIS
	iv)		Make remaining incremental enhancements to OASIS as an outgrowth of the NAESB March 29, 2005 conference on the future of OASIS (R05026). Scoping statement completed by SRS and assignments made to BPS and OASIS.		
		1)	Eliminate Masking of TSR tag source and sink when requested status is denied, withdrawn refused, displaced, invalid, declined, annulled or retracted Status: Not Started	2011	OASIS
		2)	Initiate standard that eliminates the disparity of posting "sensitive" information. This standard should also include procedures of user certification that allows access to this class of information. Status: Underway (upon further development of this item by NAESB, a completion date will be determined)	2011	OASIS
		3)	Enhance the TSR result postings to allow showing of (i) limiting transmission elements and (ii) available generation dispatch options that would allow acceptance of reservation request. Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2011	OASIS
	v)		Develop, coordinate interoperability testing, and implement e-Tag version 1.8.1 Status: Underway – 20090716 discussed rough time frames laid out needs test plans drafted	1st Q, 2010	JESS
	vi)		Review and correct WEQ-004 Coordinate Interchange Business Practice Standard as needed based on activities in NERC Project 2008-12, Coordinate Interchange Standards Revisions and supporting EOP-002-2 R4 and R6. [note: this is a new item] Status: Not started – dependent on NERC activity (upon initiation of this item by NAESB, a completion date will be determined)	2010	JESS
b)			Develop and/or maintain standard communication protocols and cyber-security business practices as needed.		
	i)		Develop PKI certification program for e-Tag and OASIS Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2010	Board Certification Program Committee
	ii)		Develop PKI standards for OASIS. Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2011	OASIS

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	Item Description	Completion[1]	Assignment[2]
iii)	Develop Industry Implementation Plan for meeting PKI Standard requirements for e-tagging. Status: Underway. Full e-Tag implementation (server & client side) is linked to the transition of the Registry from NERC to NAESB and NAESB implementation. 20090716 – server-side certificate underway – change TSIN to accept https URLs with a September 2009 target.	TBD – dependent on item above (i) and EIR	JESS

4 Review and develop business practices standards to Demand Response, Demand Side Management and Energy Efficiency Programs

Review and develop needed model business practices for a standardized method for quantifying benefits, savings, cost avoidance and/or the reduction in energy demand and usage derived from the implementation of demand side management and energy efficiency programs. This effort will include demand side response, energy efficiency programs and metering, including the 'curtailment service provider' program.

a)	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 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. Status: In Progress	Phase 2	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). Status: Underway	Ongoing	Joint WEQ/REQ DSM-EE Subcommittee
c)	Develop business practice standards used to measure and verify reductions in energy and demand from energy efficiency in wholesale and retail markets.[3] This includes developing business practice standards to measure and verify energy reductions that are made to comply with a Renewable Portfolio Standard that included energy efficiency or a stand-alone Energy Efficiency Portfolio Standard. Status: Underway (An estimated completion date will be established in 1st Q, 2010 after the new subcommittee has been formalized)	2010	Joint WEQ/REQ DSM-EE Subcommittee
d)	Develop model criteria and business practice standards that system operators can use to determine how demand response will be initiated, communicated, controlled, adjusted, measured and verified, including, where feasible, best practices for demand response products and procedures currently employed in organized wholesale electric markets." Status: Not Started	TBD	WEQ Section of the Joint WEQ/REQ DSM-EE Subcommittee

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		Item Description	Completion[1]	Assignment[2]
5		**Maintain existing body of Version 2.x standards**		
	a)	Make consistency changes to Version 2.2 standards as directed by the WEQ Leadership Committee on December 12, 2007 OASIS Consistency Changes (R08001, R08002, R08003, R08005) Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	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) Status: Not Started This Standards Request was assigned to the OASIS in May 2008.	2011	OASIS
	c)	Correct WEQ 013-2.6.7.2. – Resale off OASIS (R08027)	TBD	OASIS
	d)	Add language to WEQ-001-4 Online Negotiation and Confirmation process to clarify Table 4-3 (R09003)	TBD	OASIS
	e)	Create a new OASIS mechanism that allows for the merger of like reservations without the use of the resale mechanism (R09015)	TBD	OASIS
6.		**Develop Smart Grid Wholesale and Retail Electric Standards**		
	a)	Develop requirements and use cases for PAP 03 – Pricing Model Status: Underway	1st Q, 2010	Joint WEQ/REQ SGS Task Force
	b)	Develop requirements and use cases for PAP 04 – Scheduling Model Status: Underway	1st Q, 2010	Joint WEQ/REQ SGS Task Force
	c)	Develop requirements and use cases for PAP 09 – Demand Response/Distributed Energy Resources Status: Underway	1st Q, 2010	Joint WEQ/REQ SGS Task Force
7.		**Develop or modify standards to Support FERC Order No. 676-E, (Docket No. RM 05-5-013)**		
	a)	Review standards 001-14.1.3 and 001-15.1.2 based on FERC Order No. 676-E (See ¶ 39) Status: Not Started	TBD	OASIS
	b)	Develop standards to support the Transmission Provider right to reassess the availability of conditional firm (See ¶ 72) Status: Not Started	TBD	OASIS

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	Item Description	Completion[1]	Assignment[2]
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). This annual plan item is tied to Annual Plan Item 2(a)(iii) Status: Not Started	TBD	NAESB Office

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PROVISIONAL ITEMS

1 Develop and or modify business practices related to support of NERC effort on the NERC Resources and Transmission Adequacy (Project 2009-05 Resource Adequacy Assessment).

2 Develop business practices for allocating capacity among requests received during a submittal window Order 890-A (Docket Nos. RM05-17-001, 002 and RM05-25-001, 002 - Paragraph 805).

3 Determine any needed NAESB action in support of the Interchange Distribution Calculator (IDC) and develop any necessary standards.

4 Prepare recommendations for future path for TLR (equity concerns) in concert with NERC, which may include alternative congestion management procedures[4]. Work on this activity is dependent on completing 2010 WEQ Annual Plan 1.a (Parallel Flow Visualization/Mitigation for Reliability Coordinators in the Eastern Interconnection).

5 Develop complementary standards that align with NERC Project 2008-01 Voltage and Reactive Control, for which a white paper is expected after the SAR is authorized to proceed by the NERC Standards Committee.

6 Develop NAESB business practices as needed to complement NERC reliability standards for FAC-012 and FAC-013.

7 Determine NAESB action needed to support FERC Action Plan for Smart Grid Technology.

8 Develop business practice standards for cap and trade programs for green house gas

9 Conduct assessment to determine if Electric Industry Requirements documented in WEQ-011 Gas / Electric Coordination should be considered reliability requirements and transition to NERC.

10 Develop needed business practice standards for organization/company codes for NAESB standards – and address current issues on the use of DUNs numbers. Common code usage is linked to the transition of the Registry from NERC to NAESB.

11 Support the second phase of retail development of model business practice standards for demand response programs (Shown as Item 3e on the Retail 2010 Annual Plan).

12 Review the need for, and develop standards where appropriate, in response to issues raised by FERC's National Action Plan on Demand Response.

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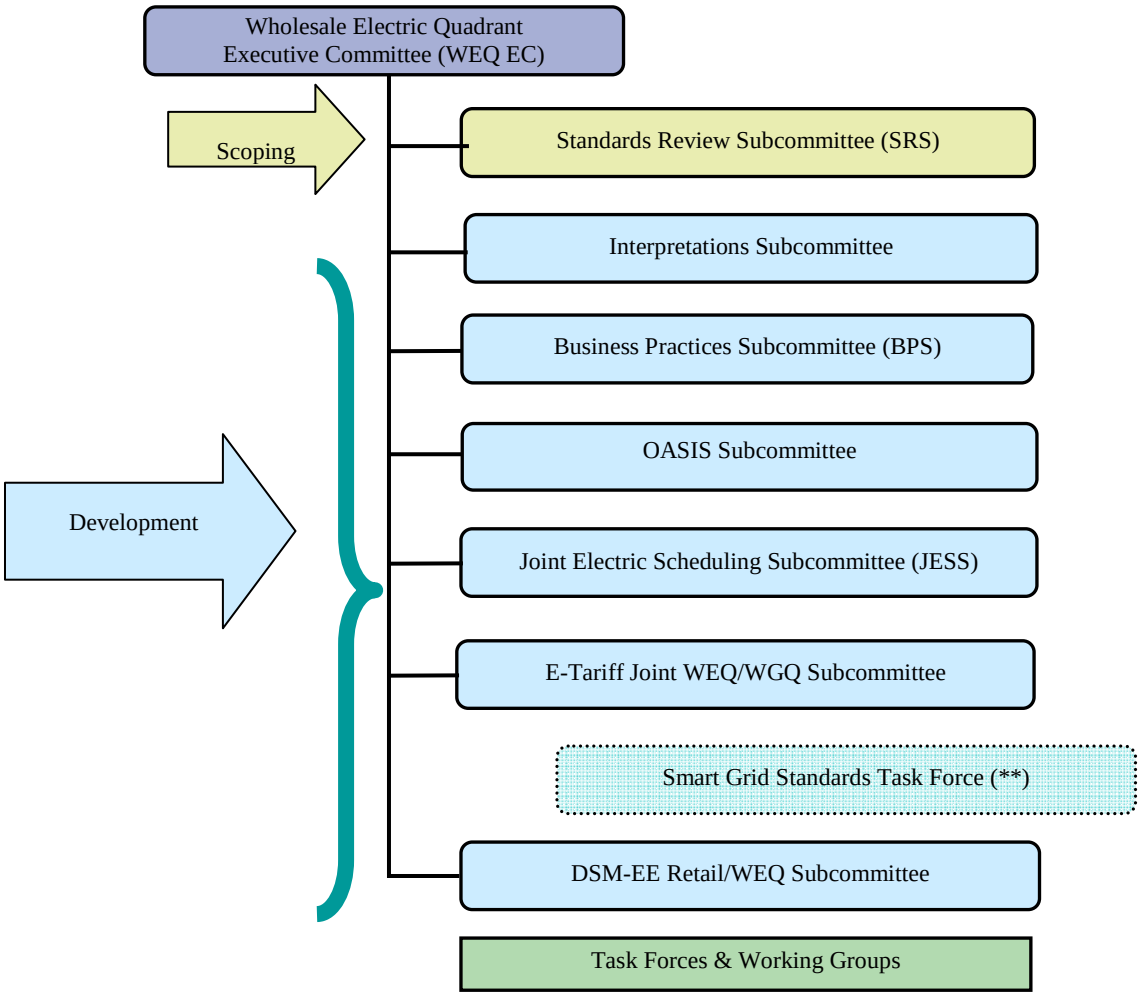
WHOLESALE ELECTRIC QUADRANT EXECUTIVE COMMITTEE AND SUBCOMMITTEE STRUCTURE



NAESB WEQ EC and Subcommittee Leadership:
Executive Committee: Kathy York (WEQ EC Chair) and Matthew Goldberg (WEQ EC Vice Chair)
Standards Review Subcommittee: Narinder Saini, Ed Skiba
Interpretations Subcommittee: Robert Schwermann
Business Practices Subcommittee & Task Forces: Jim Busbin (TLR), Ed Skiba
Open Access Same Time Information System (OASIS): Paul Sorenson, J.T. Wood, Marcie Otondo
Joint Electric Scheduling Subcommittee (JESS): Bob Harshbarger (NAESB), Jim Hansen (NERC)
e-Tariff Joint WEQ/WGQ Subcommittee (e-Tariff): Jane Daly (WEQ), Keith Sappenfield (WGQ)
DSM-EE REQ/WEQ Subcommittee: Ruth Kiselewich and David Koogler (Retail), Roy True and Paul Wattles (WEQ)

(**) The Smart Grid Task Force is a joint group of the retail electric and wholesale electric 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 to the NAESB Board Smart Grid Strategic Steering Committee. The group is chaired by Brent Hodges, Wayne Longcore and Robert Burke.

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End Notes WEQ 2010 Annual Plan:

[1] 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.

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

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

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

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October 15, 2009

TO: NAESB Executive Committee
FROM: Rae McQuade
RE: Schedule of 2010 Meetings

Below is the schedule of 2010 meetings for the Board of Directors, Advisory Council and Executive Committee.

2010 Calendar of Board and Advisory Council Meetings

Date	Meeting	Location
February 13	Advisory Council Meeting	Washington D.C. – Renaissance Washington Hotel (in conjunction with NARUC Winter Meeting)
March 25	Board of Directors	Houston – Marriott IAH
June 24	Board of Directors	Houston – Marriott IAH
September 23	Board of Directors, Meeting of the Members and Strategic Session	Houston – Marriott IAH
December 9	Board of Directors	Houston – Marriott IAH

2010 Calendar of Executive Committee Meetings

Date	Meeting	Location
February 2-4	Executive Committee (WEQ, Retail, WGQ)	Phoenix, AZ hosted by Salt River Project
May 11-13	Executive Committee (WEQ, Retail, WGQ)	Harrisburg, PA hosted by the Pennsylvania PUC
August 17-19	Executive Committee (WEQ, Retail, WGQ)	Colorado Springs, CO hosted El Paso Western Pipeline
October 26-28	Executive Committee (WEQ, Retail, WGQ)	Glen Allen, VA hosted by Dominion

The Retail Executive Committee meetings will be held by conference call and web cast unless otherwise determined by the retail leadership. The Wholesale Gas Executive committee meetings may be changed to only be held as a conference call/web cast dependent on the agenda items.