



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
March 26, 2009



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NAESB BOARD OF DIRECTORS MEETING ASSEMBLED MEETING MATERIALS
Marriott IAH Airport Hotel, Houston, Texas
March 26, 2009 -- 9 am to 1 pm C

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NAESB ANTITRUST GUIDELINES STATEMENT

ANTITRUST GUIDELINES

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

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

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

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



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NORTH AMERICAN ENERGY STANDARDS BOARD 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
Anne Bomar	Vice President, Dominion	12-31-2009
Richard Kruse	Senior Vice President, Spectra Energy Transmission	12-31-2009
LOCAL DISTRIBUTION COMPANY (LDC) SEGMENT		
V A C A N C Y		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 Energy & Policy Specialist, 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 Co.	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	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	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**

SUPPLIERS SEGMENT		TERM END:
Robert K. Koger	President, North Carolina Advanced Energy Corporation	12-31-2009
V A C A N C Y		12-31-2009
V A C A N C Y		12-31-2010
V A C A N C Y		12-31-2010
DISTRIBUTORS 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 SEGMENT		
Sonny Popowsky	Consumer Advocate, Pennsylvania Office of Consumer Advocate	12-31-2009
V A C A N C Y		12-31-2009
V A C A N C Y		12-31-2010
V A C A N C Y		12-31-2010
SERVICE PROVIDERS SEGMENT		
Jim Minneman	Controller, PPL Solutions LLC	12-31-2009
David Pickles	Vice President, ICF International	12-31-2009
J Cade Burks	President, EC Power	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	IOU
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	Market Interface Manager, 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
Ron Mucci	Consultant, Representing Entegra Power Group LLC	12-31-2009	Merchant
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.
V A C A N C Y		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
Thomas Burgess	Director – FERC Compliance, FirstEnergy Service Company	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			
V A C A N C Y		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	12-31-2010	Regulator
V A C A N C Y		12-31-2009	at large
V A C A N C Y		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	12-31-2010	
Bill Phillips	Vice President Standards Compliance & Strategy, Midwest ISO (MISO)	12-31-2010	
Don Tench	Director Planning & Assessments, Independent Electricity System Operator (IESO)	12-31-2010	

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**

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



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Via email and posting
March 18, 2009

TO: NAESB Board of Directors, Executive Committee (EC) Members, EC Alternates, and Invited Guests
FROM: Rae McQuade, NAESB President and COO
RE: Agenda: NAESB Board Meeting and related NAESB Meetings – March 26, 2009

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

As noted in other communications, we are pleased to announce the upcoming Board meeting on March 26 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 out Board dinner.

For our Board meeting, not only is this the meeting where we approve 2009 annual plans, consider progress made on several key projects, and review our financial standing in 2008 and 2009, but we have a wonderful and topical speaker slated for the March 25 dinner at the Petroleum Club – Mr. Cortright of Standard and Poor. He has given several talks on the financial markets and the interplay with utility markets, which is particularly relevant in today's environment. I had the pleasure of hearing Mr. Cortright speak in several venues, and this is a session you will not want to miss. You can find Mr. Cortright's biography at the following link: http://www.naesb.org/pdf4/cortright_bio.pdf.

The specifics of the meetings are:

Events: Board of Directors Meeting and related NAESB meetings

Where: Marriott IAH Airport, 18700 John F. Kennedy Blvd, Houston, TX 77032, phone (281) 443-5235 (excepting Board Reception and Dinner)

When: March 25 Wholesale Electric Quadrant Leadership Meeting from 1:00 pm to 3:00 pm C, (a working lunch will be served at this meeting at Noon) (Brazos AB)

March 25 Wholesale Gas Quadrant Leadership Meeting from 3:00 pm to 5:00 pm C (Lubbock AB)

March 25 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)

March 26 Resources Committee Meeting from 8:00 am to 9:00 am C (Brazos AB)

March 26 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. To participate by phone, please call 866-740-1260, with the access code of 356-0060, and security code of 6515. For the web casts, please go to the following link: <http://www.readytalk.com>, and use the same access code and security code. Please contact Veronica Thomason (vthomason@naesb.org, 713-356-0060) for additional information on the meeting and conference calling information. Board materials should be posted shortly.

We hope you will be able to make the leadership meetings and the dinner on March 25, followed by the Resources Committee meeting and the Board meeting on March 26. If you haven't already RSVPed your intention to attend the Board dinner or Board of Directors meeting or any of the related meetings, or your intention to bring a guest or colleague to the dinner, please do so at your earliest convenience (vthomason@naesb.org, naesb@naesb.org, 713-356-0060). We look forward to seeing you at the dinner on March 25 and our meeting on March 26 and at any of the related meetings noted above.

Best Regards,

Rae McQuade

Rae McQuade
NAESB President and COO



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NAESB BOARD OF DIRECTORS MEETING
Marriott IAH Airport Hotel, Houston, Texas
Thursday, March 26 – 9:00 a.m. to 1:00 pm Central

DRAFT AGENDA

- 8:00 a.m. Resources Committee Meeting**
8:30 a.m. Continental Breakfast
9:00 a.m. 1. Administration and Welcome
- a) Antitrust Guidelines
 - b) Introduction of Board Members and Guests
- 2. Adoption of the Agenda and Minutes**
- a) Agenda Adoption
 - b) Adoption of Draft Minutes – December 18, 2008
- 3. Membership and Financial Report**
- a) Membership Report
 - b) Financial Report for 2008 YE
 - c) Financial Report for 2009 YTD
- 4. Update from the 2-14-09 Advisory Council Meeting**
- a) Review of Meeting
 - b) Review of Communications with the U.S. Department of Energy
- 5. Reports from board committees**
- a) Resources
 - b) Retail Restructuring Considerations
 - Consideration of Recommendations and Vote
 - c) Managing Committee
- 6. Updates on specific efforts:**
- a) WEQ: Order No. 890, Coordination with NERC, ATC deliverable deadlines, OASIS change progress, NAESB filing of Version 2.1 with FERC, Plans for Version 2.2
 - b) WGQ: Update on capacity release price indexing technical implementation and progress report on FERC Order No. 712, FERC efforts on Version 1.8, plans for completion of Version 1.9 and publication
 - c) WEQ and Retail: DSM/EE efforts
 - d) Retail: Update on customer choice programs efforts, activities not related to customer choice programs, plans for completion of Version 1.1 and publication
- 7. Executive Committee Reports**
- a) Review of 2009 WGQ Annual Plan and vote to adopt with any revisions made during the meeting
 - b) Review of 2009 Retail Annual Plan and vote to adopt with any revisions made during the meeting
 - c) Review of 2009 WEQ Annual Plan and vote to adopt with any revisions made during the meeting
- 8. Plan for June 2009 Board Meeting**
- 9. Old and New Business**
- a) Liaisons with external groups: FERC, NARUC, NERC, Other Groups
 - b) Board Meeting Schedule for 2009
- 1:00 p.m. 10. Adjourn**
- Attire – Business Casual -- Working buffet lunch will be provided.*



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January 27, 2009

TO: NAESB Board Members, Posting for Interested Industry Participants
FROM: Deonne Cunningham, Meeting Administrator / Project Manager
RE: Draft Minutes from the NAESB Board of Directors Meeting – December 18, 2008

**NORTH AMERICAN ENERGY STANDARDS BOARD
NAESB BOARD OF DIRECTORS MEETING
December 18, 2008 – Hilton Houston North Hotel - Houston, TX
Draft Minutes**

1. Administration and Welcome

Ms. Crockett welcomed the Board members and guests in the room and on the phone. Mr. Boswell read the antitrust guidelines. Ms. Cunningham read the roster of the names and quorum was established.

The Board members reviewed the draft agenda. Mr. Lucas moved to adopt the agenda. The motion was seconded by Mr. Oberski and the agenda was adopted as written. The Board members reviewed the draft minutes from the September 25, 2008 meeting. Mr. Smead moved to adopt the draft minutes and the motion was seconded by Mr. Templeton. The motion passed without objection. The final minutes are available for viewing via the following link: <http://naesb.org/pdf4/bd092508fm.doc>.

2. Membership and Financial Report

Membership Report: Ms. McQuade reviewed the [membership report](#). The membership profile reflects a 10 member loss from year end 2007 to present day. In total, there have been 16 new membership and 29 resignations from all four quadrants. With the further development of the DSM-EE efforts and other key projects plus changes in the fees charged to new members, a net gain in membership is expected to occur in 2009.

Financial Report for 2008: Ms. McQuade provided an account of the [financial report](#) and [financial chart](#). The meeting statistics show the number of meeting held by conference call, in person and the number of hours allocated for these meeting for 2008. The report also lists the number of products sold, a month-by-month accounting of membership, and membership changes by segments and quadrants. In reviewing the balance sheet, it shows an increase in expenses which are directly related to the increase in the number of meetings held. Nonetheless, the balance sheet dictates a negative net income of over \$100,000 due to loss of 10 memberships rather than a net gain of 20 membership (a swing of thirty memberships -- \$150,000)..

Presentation of 2009 Budget Proposal for Vote for Adoption: The Board reviewed the [Budget Proposal for 2009](#). Ms. McQuade indicated that the \$200,000 swing in revenues for 2009 represents 40% of the amount that will be realized in 2010. It is expected that there will be an increase in revenue resulting from the membership dues increases and the affects of less expenses by the organization. It is further expected that NAESB will recognize the full impact of the membership dues increase and is forecasted have positive retained earnings for 2010-2011. Ms. Barry questioned whether the change in membership occurred because of the membership dues increase. Ms. McQuade responded that those memberships that chose not to renew did so to reduce cost and this determination was made before the Board voted on the increase in membership dues. She indicated that membership dues reminders have been to those that must renew in January 2009. Mr. Lucas moved to approve the 2009 Budget Proposal. The motion was seconded by Mr. Templeton. The motion was approved with no opposition or further discussion.

3. Reports from Board Committees

Resources Committee: Mr. Brown provided a review of the progress of the [Resources Committee](#). He indicated that the organization has net increase of 22 members since 2008, but saw a decline in 2009 of 10 members, which



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brought the previously noted gain of 32 members in 2008 to 22 net as of YE 2009. He noted that an increase in participation with Board members to reach out to trade association for leadership opportunities should yield additional memberships. He further noted that there have been many new participants involved in the DSM-EE meetings, which will continue to be an opportunity to gain members. During the November 2008 NARUC meeting, the group made a membership presentation which received positive reception from the participants. The group will make a similar presentation during the February 2009 NARUC meeting in Washington, DC. Board members were encouraged to identify additional contacts within those companies and firms. During the September 2008 meeting, the Resources Committee presented a challenge to Board members to increase membership within the quadrants. A prize would be awarded to the quadrants that gained the most members. For YE 2009, the WGQ was the winner of the challenge and Mr. Hebenstreit accepted the award on its behalf.

Retail Restructuring Considerations: Mr. Minneman provided an update on the [Retail Restructuring Considerations](#). At the request of the NAESB Board of Directors, the Retail Structure Review Committee met on December 10, 2008 to discuss the future of the Retail Quadrants. During this meeting, the participants discussed five potential solutions to the membership issues faced by both the Retail Gas and Retail Electric Quadrants. These solutions included: (1) merging the Retail Gas and Retail Electric Quadrants, (2) merging the Retail Quadrants and the Wholesale Quadrants, (3) indefinitely discontinuing the work of the Retail Quadrants or significantly restricting the work that will be undertaken by the Retail Quadrants, (4) dissolving the Retail Quadrants, or (5) continuing the existing structure for 2009-2010. The Committee recommended that the Retail Quadrants focus development work on the emerging areas of energy efficiency and demand side management. As a result the current segment structure should be modified. The current segment structure of the Quadrants was appropriate for development of model business practices for customer choice and competition but is no longer appropriate given the shifting focus of the Quadrants' work. The Quadrants could be restructured so that current members, including those holding Retail Board and Executive Committee seats, would be minimally affected, and more accurately represent the current Retail market activities. This course of action would be presented to the Board at its next meeting.

Mr. Kruse stated that the Retail quadrant appears to lack participation given the Committee's perception that work remains to be completed. Mr. Minneman responded that the market has not been one that has maintained membership but the quadrant has seen an increase in participation due to the DSM-EE efforts. Mr. Lawson questioned whether the Retail quadrant would receive enough of a gain in membership that will allow them to continue operation as noted in the NAESB governance documents. Mr. Desselle moved to accept the report and the recommendation from the Committee. Mr. Burks seconded the motion. During the discussion of the motion, Mr. Kruse addressed his concern that the Retail quadrant does not reflect the consensus of the industry. Mr. Boswell explained that this action pertaining to the Retail quadrant will allow it to continue to operate and exist until a final decision can be determined by the Board during the March 2009 meeting. He noted that this decision will allow the Retail quadrant to continue its work with the DSM-EE efforts in developing a recommendation to be fully staffed by the March 2009 meeting. The motion passed with no opposition.

Managing Committee: Ms. Crockett provided a brief update on the activities of the [Managing Committee](#). She indicated that Committee met via conference call on December 10, 2008 to review the proposed 2009 budget. After review and discussion, a motion was made by Mr. Templeton and seconded by Ms. Crockett to approve the 2009 budget as presented. The 2009 budget was unanimously approved.

4. Updates on specific efforts

WEQ: Ms. York provided an update on the activities related to [FERC Order No. 890](#), coordination with NERC, ATC deliverable deadlines, OASIS change progress, NAESB filing of Version 2 with FERC. She noted that the 17 ATC-related efforts have been completed and filed with FERC. She further noted that the CBM recommendation was recently ratified and will be filed with Version 2.1 during the 1st quarter of 2009.

During the November 2008 WEQ EC meeting, the EC could not reach a consensus in regards to modifications to 2008 WEQ Annual Plan Item 2.a.iv, 3.a.vii., and 6.l. A section, WEQ-001-9.7 was pulled from the recommendation and the WEQ EC assigned a task force to review this section pertaining to rollover of redirects on a firm basis. The



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WEQ EC task force will meet with FERC staff in early January 2009. Since the last Board meeting, there have been 27 meetings in total between the WEQ EC and subcommittees combined.

WGQ: Mr. Buccigross provided a brief update on the capacity release price indexing technical implementation and progress report on FERC Order No. 712. He indicated that the technical implementation for capacity release price indexing was on schedule and will be completed by first quarter 2009. He stated the publication of Version 1.9 with technical implementations is scheduled to be completed by second quarter 2009.

WEQ and Retail: DSM/EE efforts: Mr. True reviewed the DSM/EE efforts. Since the last Board meeting, the subcommittee has held two meetings to finalize the Wholesale demand response program measurement and verification proposed business practice standards. Ms. McQuade noted that the recommendation received 15 sets of comments that contributed 90 distinct comments related to specific areas of the recommendation. She further noted that the recommendation received only three negative votes at the subcommittee level. During the December 2, 2008 meeting, the [Wholesale DSM-MV recommendation](#) was voted out of the subcommittee and is out for a 30-day formal comment period. The deadline for industry comments to be received by the NAESB has been extended to January 12, 2009 due to the upcoming Holiday break. A WEQ EC Single Topic call to review the recommendation has been scheduled for January 14, 2009. The WEQ EC will meet on January 27, 2009 for a possible vote on the recommendation.

In regards to the [Retail DSM/EE efforts](#), the subcommittee determined that the recommendation would be fashioned after the characteristics of the Wholesale demand response program measurement and verification proposed business practice standards. The group is currently drafting a white paper that will specifically outline the Retail market efforts. The group is scheduled to meet January 15, 2009 and has several other meeting arranged to reach the goal of drafting a recommendation.

Retail: Progress on next publication: Ms. McKeever provided a brief update on the progress of the next Retail publication. She indicated that the group is currently working on the centralized process for the Texas Registration Agent model. The group has completed work on all technical guidelines and process loads including switch move in, move outs, drops, and ad hoc historical usage requests. She stated that the group will meet the publication deadline for first quarter 2009.

5. Executive Committee Reports

Review of WGQ Annual Plan: Mr. Buccigross reviewed the [2008 WGQ Annual Plan](#). He indicated that there carry-over items listed on the plan as it relates to FERC Order No. 698. He noted that the addition of 2008 WGQ Annual Plan Item 10, which was added as result of FERC action. He further noted that the WGQ EC will schedule a conference call for January 2009 for a possible vote on this recommendation. Mr. Sappenfield noted that the status for 2008 WGQ Annual Plan 3.a is underway. This change was approved by the Board and the Annual Plan was subsequently modified to reflect this revision. The approved revisions are available for viewing via the following link: <http://naesb.org/pdf4/bd121808a2.doc>.

Review of Retail Annual Plan: Ms. Kiselewich provided a brief review of the [2008 Retail Annual Plan](#). There was no discussion regarding the changes that were completion date related. The approved version of the Plan is available for viewing via the following link: <http://naesb.org/pdf4/bd121808a3.doc>.

Review of WEQ Annual Plan: Ms. York reviewed possible modifications to the [2008 WEQ Annual Plan](#). In regards to Item 1, she noted that five of the listed items have been completed and three items will continue to the 2009 WEQ Annual Plan. She further noted that the subcommittees have worked diligently on all of the FERC Order No. 890 items. In regards to the OASIS-related items, 14 Annual Plan items will carry-over to the 2009 WEQ Annual Plan. Ms. York indicated that as it relates to DSM-EE, 8 items are set for completion for January 2009 and these items may require further clarification and granularity. In relation to Section 6 of the 2008 WEQ Annual Plan, 6 items will continue forward to the 2009 WEQ Annual Plan. Mr. Burke moved to approve the revisions to the Annual Plan. Mr. Lucas seconded the motion. The motion unanimously passed with no further discussion. The approved version of the 2008 WEQ Annual Plan is available for viewing via the following link: <http://naesb.org/pdf4/bd121808a1.doc>.



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2009 Plan Development: The comments for the 2009 Annual Plans are due to January 16, 2009. The WGQ, Retail, and WEQ have scheduled meetings the week of January 21-23, 2009 to approve the 2009 plans. Subsequently, the plans will be submitted to the Board for approval by a simple majority vote.

6. Plan for March 2009 Board Meeting

Members and participants were encouraged to contact Ms. McQuade and Mr. Desselle if they would like to include items on the agenda for the March 2009 Board meeting.

7. Old and New

Liaisons with external groups: FERC, NARUC, NERC, Other groups: Ms. McQuade stated that in earlier in the month, she, along with Ms. Crockett and Mr. Desselle, met with FERC Commissioners to discuss NAESB efforts. The Commission is pleased of NAESB's progress with Order 890 and DSM-EE efforts. During the November NARUC meeting, Ms. McQuade made a presentation as it relates to the DSM-EE efforts. She noted that NAESB will continue to work closely in coordination with NERC in regards to Order 890 efforts. She further noted that NAESB must involve NARUC and state commissioner staff with respect to the Retail Restructuring issue.

The dates for next year's board meetings have been [scheduled](#). They will be held on March 26, June 25, September 24 and December 10 at the Houston – Marriott IAH.

8. Adjourn

Mr. Templeton moved to adjourn the meeting. Mr. True seconded the motion. The meeting adjourned at 10:59a.m. Central on December 18, 2008.

9. Board Attendance and Voting Record (Vacancies Omitted)

		ATTENDANCE
WGQ PRODUCERS SEGMENT		
Jay Ellzey	Vice President Commercial Operations, Chevron Natural Gas	
William T. Benham	Vice President – Regulatory Affairs, BP Energy Company	
Keith Sappenfield	Regional Director – US Regulatory Affairs, EnCana Oil & Gas (USA) Inc.	In Person
Marty Patterson	Vice President – Commercial Operations, Foothills Energy Ventures LLC	
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	In Person
Susanna B. Barry	Vice President – Commercial Operations, Tennessee Gas Pipeline Company	In Person
Anne Bomar	Vice President, Dominion	In Person
Richard Kruse	Senior Vice President, Spectra Energy Transmission	In Person
WGQ LOCAL DISTRIBUTION COMPANY (LDC) SEGMENT		
Clifton Olson	Vice President of Supply and Transmission, Energy East Corporation	On Phone
Adrian Chapman	Vice President, Regulatory Affairs & Energy Acquisition, Washington Gas	In Person
Carlos Thillet	Manager, Gas Supply & Transportation, PECO Energy Co.	On Phone
Mike Novak	Asst. General Manager, National Fuel Gas Distribution Corporation	
Lee Stewart	Senior Vice President, Gas Transmission, Southern California Gas Company	On Phone
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.	
Lori-Lynn C. Pennock	Senior Fuel Supply Analyst, Salt River Project	In Person
Jim Templeton	Principal, Comprehensive Energy Services	In Person



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			ATTENDANCE
WGQ SERVICES SEGMENT			
John Bretz	Vice President - Gas Marketing, Anadarko Energy Services Company		In Person
Rusty Brazil	Managing Director, Bentek Energy, LLC		
Jim Buccigross	Vice President Energy Industry Practice, 8760 Inc.		On Phone
Bill Hebenstreit	Marketing Manager, Goodrich Petroleum Company, LLC		In Person
REQ SUPPLIERS SEGMENT			
Robert K. Koger	President, North Carolina Advanced Energy Corporation		In Person
REQ DISTRIBUTORS SEGMENT			
David Koogler	Director – State Regulation, Dominion Virginia Power		In Person
Dennis Derricks	Director Regulatory Policy and Analysis, Wisconsin Public Service Corporation		On Phone
Ruth Kiselewich	Director, Conservation Programs, Baltimore Gas & Electric Company		On Phone
Debbie McKeever	Market Advocate, Oncor		In Person
REQ END USERS SEGMENT			
Sonny Popowsky	Consumer Advocate, Pennsylvania Office of Consumer Advocate		
REQ SERVICE PROVIDERS SEGMENT			
Jim Minneman	Controller, PPL Solutions LLC		On Phone
David Pickles	Vice President, ICF International		
J Cade Burks	President, EC Power		In Person
WEQ TRANSMISSION SEGMENT		SUB SEG:	
Dan Klempe	Director Transmission Regulatory Compliance, Basin Electric Power Cooperative	Muni/Coop	On Phone
Chuck Feagans	Senior Manager, Reliability Policy, Tennessee Valley Authority	Fed/State/Prov.	On Phone
John E. Lucas	Director - Transmission Policy and Services, Southern Company Transmission	IOU	In Person
Jerry Smith	Alliance/Partnership Manager, Arizona Public Service Co.	IOU	In Person
Jill Horswell	Director Transmission, Southern California Edison	at large	On Phone
Terri Grabiak	Director – FERC and RTO Internal Affairs, Allegheny Energy, Inc.	at large	
Michelle Mizumori	Market Interface Manager, Western Electricity Coordinating Council (WECC)	At-Large	On Phone
WEQ GENERATION SEGMENT			
Curtis Winterfeld	Vice President of Power Marketing, Deseret Generation & Transmission Cooperative	Muni/Coop	
Belinda Thornton	General Manager - Energy Origination, Tennessee Valley Authority	Fed/State/Prov.	
Lou Oberski	Director – Electric Market Policy, Dominion Resources Services, Inc.	IOU	In Person
Charles W. Severance	Manager – Supply & Wholesale Services, Wisconsin Public Service Corporation	IOU	In Person
Ron Mucci	Consultant, Representing Entegra Power Group LLC	Merchant	In Person
Gloria Ogenyi	Vice President Energy Policy, Conectiv Energy Supply, Inc.	Merchant	
Shah Hossain	Senior Regulatory Specialist, Westar Energy, Inc.	at large	
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	On Phone
Rick Smead	Director, Navigant Consulting, Inc.	At-Large	In Person



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			ATTENDANCE
WEQ DISTRIBUTION/LOAD SERVING ENTITIES (LSE) SEGMENT			
Arthur G. Fusco	Vice President and General Counsel, Central Electric Power Cooperative Inc.	Muni/Coop	In Person
Barry R. Lawson	Manager-Power Delivery, National Rural Electric Cooperative Association	Muni/Coop	In Person
Frank Johnson	Senior Vice President Electric Transmission and Distribution, Consumers Energy	IOU	
Thomas Burgess	Director – FERC Compliance, FirstEnergy Service Company	at large	In Person
Joe Hartsoe	Managing Director – Federal Policy, American Electric Power Service Corp.	at large	On Phone
Bruce Ellsworth	New York State Reliability Council	At-Large	In Person
WEQ END USERS SEGMENT			
Thomas G. Dvorsky	Director of the Office of Electricity, Gas, and Water at the New York State Department of Public Service	Regulator	
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		On Phone
Kent Saathoff	Vice President of System Operations, ERCOT		
Kevin Kirby	Vice President Market Operations, ISO New England, Inc.		On Phone
Rana Mukerji	Vice President Market Structures, New York Independent System Operator, Inc. (NYISO)		
Andy Ott	Senior Vice President Marketing, PJM Interconnection		On Phone
Bill Phillips	Vice President Standards Compliance & Strategy, Midwest ISO (MISO)		On Phone
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)		In Person
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.	ITC – Independent Transmission Company		
Competitive Retailer (not available to MUNI/COOP, IOU or IOU affiliates)	Large Industrials (not in other segments)		
End Use (also in another segment)	Merchant		
Federal/State/Provincial	Muni/Coop – Municipals, Cooperatives		
IOU – Investor Owned Utility or IOU Affiliated	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.



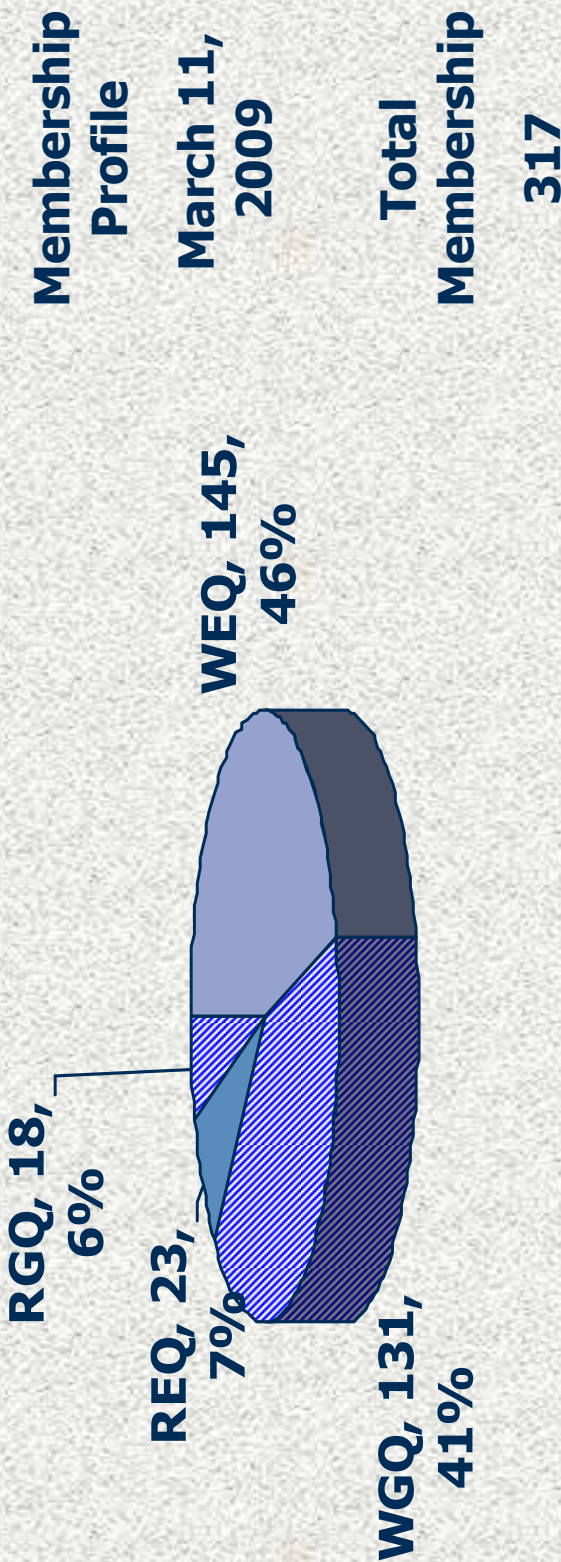
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10. Other Attendance

Name	Organization	Attendance
Jonathan Booe	NAESB	In Person
Bill Boswell	NAESB	In Person
John Bretz	Anadarko Energy Services Company	In Person
Kathryn Burch	Spectra Energy Transmission	In Person
Christopher Burden	Williams Gas Pipeline	In Person
Ralph Cleveland	AGL Resources	In Person
Deonne Cunningham	NAESB	In Person
Dale Davis	Williams Gas Pipeline	In Person
Ed Davis	Entergy	In Person
Bruce Ellsworth	New York State Reliability Council	In Person
Cory Galik	NAESB	In Person
Mark Gracey	Tennessee Gas Pipeline	In Person
Ryan Irwin	FERC	Phone
Melissa Lauderdale	Integrays Energy	Phone
Bill Lohrman	FERC	Phone
Rae McQuade	NAESB	In Person
Denise Rager	NAESB	In Person
Andy Rodriquez	NERC	In Person
Gwen Schoepp	Williston Basin	Phone
Micki Schmitz	Northern Natural Gas	Phone
Ed Skiba	Midwest ISO	In Person
Richard Smith	Noble Energy	In Person
Veronica Thomason	NAESB	In Person
Kim Van Pelt	Panhandle Eastern Pipeline	In Person
Jill Web	Preferred Legal Services	In Person
Marcie Otondo	APS	In Person
Charles Yeung	SPP	In Person
Kathy York	Tennessee Valley Authority	In Person

North American Energy Standards Board Organizational Profile



Quadrant Statistics	WEQ	WGQ	REQ	RGQ	Total
Membership YE 2008	150	135	23	19	327
Net Change	-5	-4	0	-1	-10
Membership YTD	145	131	23	18	317

North American Energy Standards Board Membership List
 As of March 11, 2009

NAESB Membership Statistics – Changes by Quadrant for 2009 as of March 11, 2009

NAESB Membership Report - Quadrant/Segment Membership Analysis		Number of Members
WGQ Segments	TOTAL	131
	End Users	18
	Distributors	21
	Pipelines	43
	Producers	17
	Services	32
REQ Segments	TOTAL	23
	End Users	3
	Distributors	10
	Services	6
	Suppliers	4
RGQ Segments	TOTAL	18
	End Users	1
	Distributors	7
	Services	5
	Suppliers	5
WEQ Segments	TOTAL	145
	End Users	7
	Distributors	24
	Transmission	46
	Generation	29
	Marketers	28
	None Specified	1
	Independent Grid Operators/Planners	10

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WEQ	New Members:	2
	<i>Los Angeles Department of Water and Power (Transmission, Muni/Coop), Los Angeles Department of Water and Power (Marketers/Brokers, Muni/Coop)</i>	
	Member Resignations:	7
	<i>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)</i>	
WGQ	New Members:	1
	<i>Golden Pass Pipeline, LLC (Pipeline)</i>	
	Member Resignations:	5
	<i>Cascade Natural Gas Corporation (LDC), UBS Energy LLC (Services), Westfield Gas & Electric Light Dept. (LDC), Hess Corporation (Services), Lehman Brothers Commodity Services, Inc. (Services)</i>	
REQ	New Members:	0
	Member Resignations:	0
RGQ	New Members:	0
	Member Resignations:	1
	<i>Xcel Energy (Distribution)</i>	
TOTAL	New Members	3
	Member Resignations:	13

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	Organization	Seg ¹	Contact	Sub-Seg ²
Retail Electric Quadrant Members:				
1	Advantage IQ, Inc.	e	Suzanne Figy, Jami Boom	
2	Alabama Power	d	Judy W. Ray	
3	Ameren Services Company	d	Patrick Eynon	
4	Baltimore Gas & Electric Co.	d	Ruth Kiselewich, Phil Precht	
5	Consolidated Edison Company of NY	d	Adrienne Austin	
6	Constellation NewEnergy, Inc.	d	Jansen Pollock	
7	Direct Energy Business Services	su	David Booty	
8	Dominion Retail	su	William Barkas, Richard Zelenko	
9	Dominion Virginia Power	d	David F. Koogler, Mary Edwards	
10	EC Power International	s	Judy Bailey, J. Cade Burks, Jennifer Teel	
11	Electric Reliability Council of Texas (ERCOT)	s	Susan Munson	
12	Exelon Energy Delivery	d	Toni Garza	
13	ICF International	s	David Pickles	
14	MidAmerican Energy	d	James E. Wilson	
15	North Carolina Advanced Energy Corporation	su	Robert K. Koger	
16	Office of Public Advocate, State of Maine	e	Agnes Gormley	
17	Oncor	d	Larry Williford, Debbie McKeever	
18	Pennsylvania Office Of Consumer Advocate	e	Tanya J. McCloskey, Sonny A. Popowsky	
19	PPL Solutions, LLC	s	James M. Minneman, Kim Wall	
20	Public Service Electric & Gas	d	Terrence Moran	
21	Southern Company Services	s	Barbara Hingst	
22	Structure Group	s	Stacey Wood	
23	Wisconsin Public Service Corporation	d	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	
6	Apache Corporation	pr	Kelley Powell	
7	Arizona Public Service Company	e	Tom Carlson, Kelly Daly	
8	Atmos Energy	pl	Steve Easley	

¹ The segment abbreviations are: **REQ**: d – distributors, e – end users, s – service providers, su – suppliers. **RGQ**: d – distributors, e – end users, s – service providers, su – 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

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	Organization	Seg¹	Contact	Sub-Seg²
9	Ballard Natural Gas, LLC	s	Susan Thibodeaux	
10	Baltimore Gas & Electric Co.	l	Phil Precht, Ron Jennings, Mark Valavanis	
11	Barclays Bank PLC	s	Guy Kern-Martin	
12	Bentek Energy, LLC	s	E. Russell Braziel	
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	Bill Benham, 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	
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	Chandeleur Pipe Line Company	pl	Mary Anne Collins, Deborah Plattsmier	
24	Cheniere Pipeline Company	pl	Whit Scott	
25	Cheniere LNG Marketing, Inc.	s	Mark Stubbe, Tammy Miller	
26	Chevron Natural Gas	pr	Charles (Chuck) Cook	
27	Chevron Pipe Line Company	pl	Mary Anne Collins, Deborah Plattsmier	
28	Cimarex Energy Co.	pr	Charlotte Baker	
29	Citigroup Energy Inc.	s	Carrie Southard, Angela Davis	
30	Colorado Springs Utilities	l	Joe M. Holmes	
31	Columbia Gas Transmission	pl	Claire Burum	
32	Comprehensive Energy Services	e	Jim Templeton	
33	ConocoPhillips Gas and Power	pr	Peter Frost	
34	Consolidated Edison Company of NY	l	Scott Butler, Paul Olmsted	
35	Constellation Energy Commodities Group Inc.	s	Lisa Simpkins	
36	Dauphin Island Gathering Partners	pl	Katie Rice	
37	DB Energy Trading	s	William Donnelly, Travis McCullough	
38	Defense Energy Support Center	e	Veronica Jones, Kevin Ahern	
39	Department of Energy	e	Christopher Freitas	
40	Devon Energy Corporation	pr	Bill Green	
41	Dominion Resources	l	Craig Columbo	
42	Dominion Transmission, Inc.	pl	Gary Sypolt, Iris King	
43	DTE Energy Trading, Inc.	s	Gregory V. Staton, James Buck, Dena Crawford, Marcia L. Hissong, Ann Marie Jambor, Cynthia Klots, Shelley Greene	
44	El Paso Natural Gas	pl	William Griffith	
45	El Paso Exploration & Production Company	pr	Susan Lum, David A. Webster, Stephanie Karm	
46	Enbridge Energy Company, Inc.	pl	Terry McGill	

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	Organization	Seg¹	Contact	Sub-Seg²
47	EnCana Marketing (USA) Inc.	s	Keith Sappenfield	
48	EnCana Corporation	pr	Keith Sappenfield	
49	Energy East Management Corporation	l	Mark Marini	
50	Entergy Services, Inc.	e	Laura Berryman, Terry Shields	
51	Enterprise Products Partners L.P.	pl	Richard W. Porter	
52	Equitrans, LP	pl	Joseph M. Dawley	
53	ExxonMobil Gas & Power Marketing Company a division of Exxon Mobil Corporation	pr	Jim Hanrahan	
54	Florida Power & Light Company	e	Dona Gussow, Art Morris	
55	Foothills Energy Ventures, LLC	pr	Marty Patterson	
56	FPL Energy Power Marketing, LLC	e	Marty Jo Rogers	
57	Gas Transmission Northwest Corp.	pl	Jay Story	
58	Golden Pass Pipeline, LLC	pl	Susan Braden	
59	Goodrich Petroleum Company, L.L.C.	pr	Bill Hebenstreit	
60	Great Lakes Gas Transmission	pl	Gene Fava	
61	High Mount Exploration and Production, Inc.	pr	David Ogden, Gary Weaver, Sheri Heslington	
62	Houston Pipe Line Company LP	pl	Josie Castrejana	
63	Husky Energy Marketing, Inc.	pr	Jan Bindon	
64	Husky Gas Marketing, Inc.	pr	Jan Bindon	
65	Husky Marketing and Supply Company	e	Jan Bindon	
66	Imperial Irrigation District	e	William Rapp	
67	Integrus Energy Group, Inc.	l	David E. Wear	
68	Iroquois Gas Transmission System	pl	Tom Gwilliam	
69	JP Morgan Ventures Energy Corp	S	Paul Tramonte	
70	Kern River Gas Transmission Co	pl	Brenda Horton	
71	Laclede Gas Co.	l	Kenneth Neises	
72	Latitude Technologies	s	Leigh Spangler	
73	Louis Dreyfus Energy Services	s	Mary Ellen Bell, Ruby H. Melton	
74	Lower Colorado River Authority	e	Mickey Bell	
75	Macquarie Cook Energy, LLC	s	Angela Jones	
76	Marathon Oil Company	pr	Robin Perrine	
77	Mewbourne Oil Company	pr	Michael F. Shepard	
78	Mirant Energy Trading, LLC	e	Laura Trautman, John F. Hogan	
79	National Fuel Gas Distribution	l	Michael Novak	
80	National Fuel Gas Supply Corp.	pl	Joseph Kardas	
81	National Grid Gas Distribution Companies	l	Dolores Chezar	
82	Natural Gas Pipeline Co of America	pl	Paul Love, Stan Thomas, Mike Schisler, Paul Haas	
83	New Jersey Natural Gas Company	l	Douglas C. Rudd	
84	Nexen Marketing	s	Shelley Leavitt	
85	NiSource Inc.	l	George Simmons, Sorana Linder	
86	Noble Energy, Inc.	pr	Richard Smith	

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	Organization	Seg¹	Contact	Sub-Seg²
87	Northern Border Pipeline Company	pl	Scott Coburn	
88	Northern Natural Gas	pl	Mary Darveaux	
89	Northwest Natural Gas Company	l	Randolph Friedman	
90	NOVA Gas Transmission Ltd.	pl	Doug Miller	
91	OGE Energy Resources, Inc.	s	Cary Metz	
92	ONEOK	l	Richard Tangeman	
93	ONEOK Partners GP, LLC	pl	Teri Tingler	
94	Ozark Gas Transmission, LLC	pl	David A. Harrell	
95	Pacific Gas & Electric	l	John Breen, Don Petersen	
96	Panhandle Eastern Pipe Line	pl	William Grygar, Kim Van Pelt	
97	PECO Energy Co.	l	Reed R. Horting	
98	Pemex Gas Y Petroquimica Basica	s	Juan Enrique Gonzalez Azuara	
99	Peoples Gas System (A division of Tampa Electric Co)	l	Wraye Grimard	
100	Platts	s	Bill Murphy	
101	Portland Natural Gas Transmission System	pl	David Haag	
102	PPL EnergyPlus, LLC	e	Anne Lovett	
103	Public Service Electric & Gas	l	David Wohlfarth	
104	Questar Pipeline Co.	pl	Scott Hansen	
105	Quorum Business Solutions Inc.	s	Anne Golenternek, Michael Lewis	
106	Reliance Gas Transportation Infrastructure Limited	pl	Jagjit S. Yadav	
107	Salt River Project Agricultural Improvement & Power District	e	Lori-Lynn C. Pennock	
108	Sempra Energy - Southern California Gas Co.	l	Lee Stewart, Rodger Schwecke	
109	Sequent Energy Management, L.P.	s	Pat Metteauer	
110	Shell Energy North America (US), L.P.	s	Eric Gillaspie	
111	SolArc, Inc.	s	Mark Davis	
112	Southern California Edison Company	e	Roman Bakke, Curt Roney	
113	Southern Company Services, Inc.	e	Alan Kilpatrick, Bryan Mitchell	
114	Southern Natural Gas Co.	pl	Renee Hyde, Tracey Nicholson, Ludean Wyatt	
115	Southern Star Central Gas Pipeline	pl	Philip Rullman, Dale Sanders	
116	Southwest Gas Corporation	l	Larry Black	
117	Spectra Energy Transmission	pl	Richard Kruse	
118	SUEZ Energy Marketing NA, Inc.	s	Shirley Tidor	
119	SunGard	s	Lucia Nail	
120	Tennessee Gas Pipeline Company	pl	Sue Barry, Mark Gracey	
121	Tennessee Valley Authority	e	Valerie Crockett	
122	Tiger Natural Gas	s	Tracy Phillips	
123	TransCanada Pipelines	pl	Doug Miller	
124	Transwestern Pipeline Company, LLC	pl	Blair V. Lichtenwalter, Mary Draemer, David Mendoza	
125	Vector Pipeline L.P.	pl	Amy Bruhn	

North American Energy Standards Board Membership List
As of March 11, 2009

	Organization	Seg ¹	Contact	Sub-Seg ²
126	Vega Energy Partners, Ltd	s	Julie Pincus	
127	Virginia Power Energy Marketing, Inc.	s	Paul Pfeffer	
128	Washington Gas Light Co.	l	Adrian Chapman, Ken Yagelski	
129	Williams Gas Marketing, Inc.	s	Rich Ficken	
130	Williams Gas Pipeline	pl	Dale Davis, Christopher Burden	
131	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	Alberta Electric System Operator	i	Diana Pommen, Henry Ren	
3	Ameren Services	m	Shawn Schukar	iou
4	American Electric Power Service Corp.	d	Barbara Radous, Joseph Hartsoe, Phil Cox	iou
5	American Municipal Power - Ohio, 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	Basin Electric Power Cooperative	t	Dan Klempel	muni
11	Basin Electric Power Cooperative	m	David Raatz	muni
12	Basin Electric Power Cooperative	g	Jason Doerr	muni
13	Black Hills Corporation	t	Larry D. Williamson	iou
14	Bonneville Power Administration	d	Sydney D. Berwager	other
15	Bonneville Power Administration	g	Francis Halpin, Robin Chung	fed
16	Bonneville Power Administration	m	Brenda Anderson	fed
17	Bonneville Power Administration	t	Barbara Rehman, Tom Davis	fed
18	BP America Inc.	e	Jeanne Zaiontz	lind
19	British Columbia Transmission Corporation	t	Rohan Soulsby	fed
20	California Department of Water Resources	g	William (Bill) Forsythe, Chi Doan	fed
21	California ISO	i	Yakout Mansour	
22	Central Electric Power Cooperative	d	Arthur Fusco	muni
23	Cleco Power, LLC	t	Cindy Guillot	iou
24	Comprehensive Energy Services	e	Jim Templeton	enduse
25	Conectiv Energy Supply, Inc.	g	Gloria Godson	merc
26	Consolidated Edison Company of New York, Inc.	t	Scott Butler	iou
27	Consumers Energy Company	d	Andrew C. Dotterweich, Frank Johnson	iou
28	Dairyland Power Cooperative	t	Chuck Callies	muni
29	Deseret Power Electric Co-op	g	Curt Winterfeld	muni
30	Dominion Energy Marketing, Inc.	g	Lou Oberski, Jalal Babik	iou
31	Duke Energy Americas, LLC (DEA)	g	Walt Yeager	iou
32	Duke Energy Corp.	d	Alan Pritchard	iou

North American Energy Standards Board Membership List
As of March 11, 2009

	Organization	Seg ¹	Contact	Sub-Seg ²
33	Dynegy Power Marketing, Inc.	g	Barry Huddleston	merc
34	Edison Electric Institute	n	David Owens, Dave Dworzak, James P. Fama	N
35	Edison Mission Marketing & Trading, Inc.	g	William Roberts	merc
36	Electric Power Supply Association	m	Jack Cashin, Barry Green	at large
37	Electric Reliability Council of Texas (ERCOT)	i	Bill Blevins	
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
43	Exelon Generation - Power Team	m	Jack Crowley	iou
44	ExxonMobil Gas Marketing	e	Kerrie Anne Lanigan, Carol A. Nichols	sgen
45	First Energy Service Company	d	Robert M. Martinko, Thomas C. Burgess	iou
46	FirstEnergy Solutions Corp.	m	Mark Travaglianti	iou
47	Florida Municipal Power Agency	g	Robert C. Williams	muni
48	Florida Municipal Power Agency	d	Steven H. McElhaney	muni
49	Florida Power & Light Company	m	Gerry Yupp, Tim Gerrish	iou
50	Florida Power & Light Company	t	Marty Mennes, Bob Birch	iou
51	Georgia Transmission Corporation	t	Patrick McGovern	muni
52	Hydro One Networks	t	Mark Graham	itc
53	Hydro – Quebec Transenergie	t	Michel Pevost	fed
54	Idaho Power Company	t	Tessia Park	iou
55	Independent Electricity System Operator (IESO)	i	Cristian Dragnea, Biju Gopi	
56	Indiana Municipal Power Agency	g	Scott Berry	muni
57	ISO New England, Inc.	i	Matthew F. Goldberg	
58	Lincoln Electric System	g	Douglas Bantam	muni
59	Los Angeles Department of Water and Power	t	Mohammed Johar Beshir	muni
60	Los Angeles Department of Water and Power	m	Michael S. Webster	muni
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	Navigant Consulting, Inc.	m	Richard G. Smead, Laurie J. Oppel, Kenneth C. Lotterhos	at large

North American Energy Standards Board Membership List
As of March 11, 2009

	Organization	Seg¹	Contact	Sub-Seg²
71	New York Independent System Operator (NYISO)	i	Rana Mukerji	
72	New York State Reliability Council	d	P. Donald Raymond	at large
73	North American Electric Reliability Corporation	d	Gerry Adamski, Andy Rodriquez	at large
74	North Carolina Electric Membership Corporation	d	David Beam	muni
75	NCMPA1	d	Martin Summe	muni
76	Northeast Utilities Service Company	t	David Boguslawski, Calvin A. Bowie	iou
77	Northwestern Corporation	t	Mike Cashell	iou
78	NRG Energy, Inc.	g	Jennifer J. Vosburg, Alan Johnson	merc
79	NV Energy	m	Sheryl Torrey	iou
80	NV Energy, Inc.	t	Patricia Englin	iou
81	Ontario Power Generation	g	Colin Anderson, David Barr	merc
82	Open Access Technology International, Inc.	e	Michehl Gent	at large
83	Open Access Technology International, Inc.	t	Paul R. Sorenson	at large
84	Otter Tail Power Company	t	Daryl Hanson, Larry Larson	iou
85	PacifiCorp	m	John Apperson	iou
86	PacifiCorp	g	Greg Maxfield	iou
87	PacifiCorp	t	Shay Labray	iou
88	PHI Power Delivery	t	Ken Gates	iou
89	PJM Interconnection	i	Patrick Brown, Cathy Wesley	
90	Portland General Electric	m	John Jamieson	iou
91	Portland General Electric	t	Frank Afranji, John Walker	iou
92	Powerex Corp	m	Michael L McWilliams, Sharole Tylor	fed
93	PowerSouth Energy Cooperative	d	William Ronald Graham	muni
94	PPL Electric Utilities Corporation	t	Ray Mammarella	iou
95	Progress Energy (Regulated)	m	James Eckelkamp	iou
96	Progress Energy	t	Phillip W. Lewis, Michael Anthony, Leslie Williams, Lee Schuster	iou
97	Public Power Council Inc.	d	Nancy Baker	muni
98	Public Service Company of New Mexico	m	Steven Maestas	iou
99	Public Service Electric and Gas Company	d	Jeffrey C. Mueller	iou
100	Public Service Electric and Gas Company	t	Kenneth D. Brown	iou
101	Puget Sound Energy, Inc.	t	George Marshall, Bob Harshbarger	iou
102	Qualedi, Inc.	g	Stephen A. Morocco	at large
103	Reliant Energy Services	g	Trent Carlson	merc
104	Sacramento Municipal Utility District	d	Steve Sorey	muni
105	Salt River Project Agricultural Improvement and Power District	t	Wendy Weathers	fed
106	Salt River Project Agricultural improvement and Power District	m	Richard Lehman	fed
107	San Diego Gas & Electric Company	t	Patricia vanMidde	iou
108	Santee Cooper	t	Tom Abrams	fed

North American Energy Standards Board Membership List
As of March 11, 2009

	Organization	Seg ¹	Contact	Sub-Seg ²
109	Seattle City Light	d	Marilynn Semro	muni
110	Seminole Electric Cooperative, Inc.	m	Steve Wallace	muni
111	Shell Energy America (US), L.P.	m	Robert Reilley, Paul Kerr	niou
112	South Carolina Electric & Gas Company	t	S. Porcher Stoney	iou
113	South Carolina Electric & Gas Company	m	Kevin Spitzform	iou
114	Southeastern Power Administration	g	Bob Goss	fed
115	Southern California Edison	t	Weston Williams	iou
116	Southern California Edison Co.	g	Tracy Bibb	iou
117	Southern Company Services, Inc.	d	Gary Rozier, Greg Butrus	iou
118	Southern Company Services, Inc.	g	John Ciza	iou
119	Southern Company Services, Inc.	m	Joel Dison	iou
120	Southern Company Services, Inc.	t	R.D. (Dean) Ulch, John Lucas, JT Wood, James Y. Busbin, Daryl McGee	iou
121	Southwest Power Pool	i	Carl Monroe, Michael Desselle	
122	Southwest Transmission Cooperative, Inc.	t	Larry D. Huff	muni
123	Southwestern Power Administration	t	Tracey Stewart	fed
124	Sungard	e	Andrew Tritch	at large
125	Tampa Electric Company	m	Gail M. McKaig	iou
126	Tenaska, Inc.	g	Scott Helyer	merc
127	Tennessee Valley Authority	d	Tahnika Rodriguez, Dianne H. Nunez	other
128	Tennessee Valley Authority	g	Kathy York	fed
129	Tennessee Valley Authority	m	Belinda Thornton, Valerie Crockett	fed
130	Tennessee Valley Authority	t	Chuck Feagans	fed
131	TranServ International, Inc.	i	Kevin Burns	
132	Tri-State Generation and Transmission Association, Inc.	t	Keith V. Carman	muni
133	Tri-State G&T Association, Inc.	g	Lisa Tiffin	muni
134	Tucson Electric Power Company	t	Raquel Aguilar, Judy Fregoso, Ed Beck	iou
135	United Illuminating Company, The	t	Rose Pysh	iou
136	Vermont Public Power Supply Authority	g	William J. Gallagher	muni
137	Westar Energy, Inc.	g	Shah Hossain, Grant Wilkerson	iou
138	Western Area Power Administration	t	JB Hite	fed
139	Western Area Power Administration	m	Jeffrey Ackerman	fed
140	Western Electricity Coordinating Council	t	Michelle Mizumori, Louise McCarren	at large
141	We Energies (Wisconsin Electric)	d	Linda Horn	iou
142	We Energies (Wisconsin Electric)	g	James R. Keller	iou
143	WPPI Energy	d	Mike Stuart	muni
144	Wisconsin Public Service Corporation	g	Tom Webb, Charles W. Severance, Neal Balu	iou
145	Xcel Energy Inc.	m	David Lemmons	iou

Retail Gas Quadrant Members:

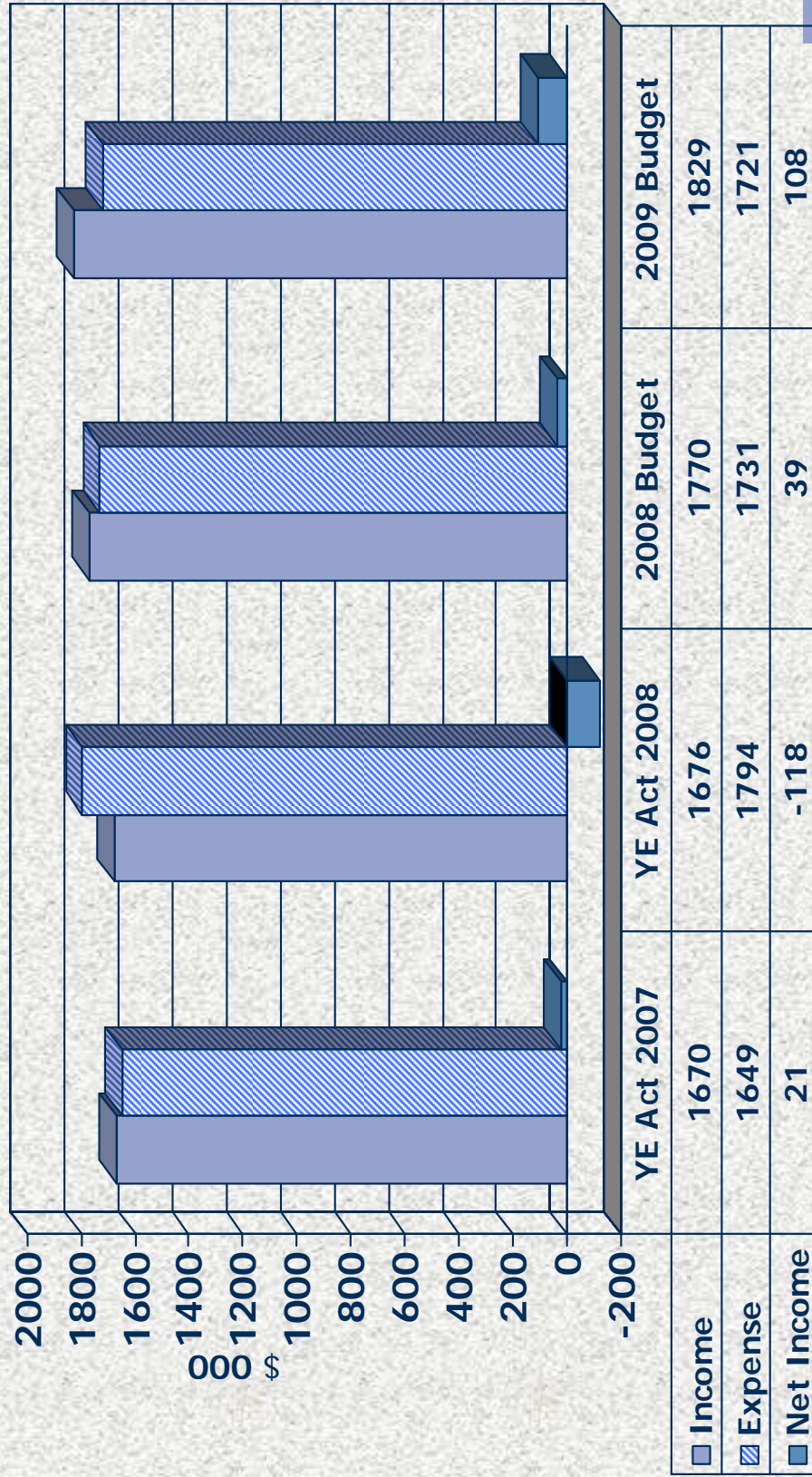
1	AGL Resources Inc.	d	Katrina Bond	
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North American Energy Standards Board Membership List
As of March 11, 2009

	Organization	Seg¹	Contact	Sub-Seg²
2	Allegro Development	s	Kimberly Page	
3	American Public Gas Association (APGA)	d	Alonzo Weaver, Joe Stengel	
4	Baltimore Gas & Electric Company	d	Phil Precht	
5	Capacity Center	s	Greg Lander	
6	Dominion Retail, Inc.	su	Richard A. Zollars	
7	Duke Energy Corp	d	Dan Jones	
8	Exelon Energy	su	Sheree M. Petrone	
9	International LNG Alliance	s	David Sweet	
10	Interstate Gas Supply	su	Ginger Fletcher	
11	Latitude Technologies	s	Leigh Spangler	
12	National Fuel Gas Distribution Corporation	d	Mike Novak	
13	Pennsylvania Office of Consumer Advocate	e	Tanya J. McCloskey	
14	Sprague Energy Corp.	su	Paul Scoff	
15	Systrends USA	s	Dave Darnell	
16	UGI Utilities, Inc.	d	Paul Szykman	
17	Vectren Retail, LLC	su	Tami Wilson	
18	Wisconsin Public Service Corporation	d	Dennis Derricks, Ken Thiry, Les Nishida	

North American Energy Standards Board Board of Directors Meeting – 3-26-09

2008 Year End Income and Expenses Compared to 2009 Budget and 2007 Year End





North American Energy Standards Board

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Membership Statistics – YE 2008:

- **January 31, 2008:** Membership in January is 341. Membership by quadrant is: 129 (WGQ), 26 (REQ), 27 (RGQ), 159 (WEQ). Year to date, we have had six new memberships (3 – WEQ, 0 – REQ, 1 – RGQ, 2 – WGQ) and one member resignation (0 – WGQ, 0 – REQ, 0 – RGQ, 1 – WEQ). We began the year with 336 members (127 (WGQ), 26 (REQ), 26 (RGQ), 157 (WEQ)). In January we saw six members join, British Columbia Transmission Corporation (Rohan Solsby) Wholesale Electric Quadrant, Transmission Segment, Fed Sub-segment, Entegra Power Group, LLC (Rebecca Turner) Wholesale Electric Quadrant, Generation Segment, Merchant Sub-segment, Energy South Midstream, Inc. (Russell Murrell) Wholesale Gas Quadrant, Services Segment, Foothills Energy Ventures, LLC (Marty Patterson) Wholesale Gas Quadrant, Producers Segment, San Diego Gas & Electric Company (Patricia vanMidde) Wholesale Electric Quadrant, Transmission Segment, IOU Sub-segment, and Vectren Retail, LOC (Tami Wilson) Retail Gas Quadrant, Supplier Segment. We had one member resignation Florida Reliability Coordinating Council (Linda D. Campbell) Wholesale Electric Quadrant, Transmission Segment, At-Large Sub-segment.
- **February 28, 2008:** Membership in February is 338. Membership by quadrant is: 129 (WGQ), 26 (REQ), 24 (RGQ), 159 (WEQ). Year to date, we have had nine new memberships (5 – WEQ, 0 – REQ, 1 – RGQ, 3 – WGQ) and seven member resignations (1 – WGQ, 0 – REQ, 3 – RGQ, 3 – WEQ). We began the year with 336 members (127 (WGQ), 26 (REQ), 26 (RGQ), 157 (WEQ)). In February, we saw three members join, OGE Energy Resources, Inc. (Cary Metz) Wholesale Gas Quadrant, Services Segment, Public Poser Council (Nancy Baker) Wholesale Electric Quadrant, Distribution Segment, Muni/Coop Sub-segment, and Santee Cooper (Tom Abrams) Wholesale Electric Quadrant, Transmission Segment, Fed Sub-segment. We had six member resignations Conectiv Energy Supply, Inc. (Gloria Ogenyi) Wholesale Electric Quadrant, Marketer Segment, IOU Sub-segment, Center Point Energy Minnegasco (Tracy Bridge) Retail Gas Quadrant, Supplier Segment, Ohio Consumers Council (Wilson Gonzalez, Wholesale Electric Quadrant, End User Segment, Comret Sub-segment, Energy Services Group, Inc. (George Behr) Retail Gas Quadrant, Services Segment, HS Resources Inc. (Carol Hall) Wholesale Gas Quadrant, Pipeline Segment, and Public Service Electric & Gas Company (Terrence Moran) Retail Gas Quadrant, Distribution Segment.
- **March 31, 2008:** Membership in March is 337. Membership by quadrant is: 129 (WGQ), 26 (REQ), 24 (RGQ), 158 (WEQ). Year to date, we have had nine new memberships (5 – WEQ, 0 – REQ, 1 – RGQ, 3 – WGQ) and eight member resignations (1 – WGQ, 0 – REQ, 3 – RGQ, 4 – WEQ). We began the year with 336 members (127 (WGQ), 26 (REQ), 26 (RGQ), 157 (WEQ)). In March, we had no members join. We had one member resignation Chevron Texaco Energy Research (Carol Guthrie) Wholesale Electric Quadrant, End User Segment, Sgen Sub-segment.
- **April 31, 2008:** Membership in April is 326. Membership by quadrant is: 128 (WGQ), 24 (REQ), 20 (RGQ), 154 (WEQ). Year to date, we have had nine new memberships (5 – WEQ, 0 – REQ, 1 – RGQ, 3 – WGQ) and 19 member resignations (4 – WGQ, 2 – REQ, 7 – RGQ, 6 – WEQ). We began the year with 336 members (127 (WGQ), 26 (REQ), 26 (RGQ), 157 (WEQ)). In April, we had no members join. We had 11 member resignations, Imperial Irrigation District (Juan Carlos Sandoval and Javier Esparza) Wholesale Electric Quadrant, Transmission Segment, Muni/Coop Subsegment, J.P. Morgan Ventures Energy Co. (Ike Gibbs) Wholesale Gas Quadrant, Services Segment, Michigan Electric Transmission company (Charles V. Waits) Wholesale Electric Quadrant, Transmission Segment, ITC Subsegment, UBS Energy LLC (Suzanne Calcagno) Wholesale Gas Quadrant, Services Segment, Indiana Office of Utility Consumer (Matthew Parsell) Retail Gas Quadrant, End User Segment, Niagara Mohawk (James Dillon) Retail Gas Quadrant, Distribution Segment, UBS Energy LLC (Suzanne Calcagno) Retail Gas Quadrant, Supplier Segment, Wal-Mart Stores, Inc. (Angela Beehler) Retail Electric Quadrant, End User Segment, Florida Reliability Coordinating Council (Ken Wiley) Wholesale Gas Quadrant, End User Segment.
- **May 30, 2008:** Membership in May is 326. Membership by quadrant is: 129 (WGQ), 24 (REQ), 20 (RGQ), 153 (WEQ). Year to date, we have had ten new memberships (5 – WEQ, 0 – REQ, 1 – RGQ, 4 – WGQ) and 20 member resignations (4 – WGQ, 2 – REQ, 7 – RGQ, 7 – WEQ). We began the year with 336 members (127 (WGQ), 26 (REQ), 26 (RGQ), 157 (WEQ)). In May, we saw one member join, Vega Energy Partners, Ltd.



North American Energy Standards Board

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(Julie Pincus) Wholesale Gas Quadrant, Services Segment. We had 1 member resignation, Oncor (Debbie McKeever) Wholesale Electric Quadrant, Transmission Segment, IOU Sub segment.

- **June 30, 2008:** Membership in June is 323. Membership by quadrant is: 129 (WGQ), 23 (REQ), 20 (RGQ), 151 (WEQ). Year to date, we have had 12 new memberships (6 – WEQ, 1 – REQ, 1 – RGQ, 4 – WGQ) and 24 member resignations (4 – WGQ, 4 – REQ, 7 – RGQ, 9 – WEQ). We began the year with 336 members (127 (WGQ), 26 (REQ), 26 (RGQ), 157 (WEQ)). In June, we saw two new members join, ICF International (David Pickles) Retail Electric Quadrant, Services Segment and Westar Energy, Inc. (Shah Hossain) Wholesale Electric Quadrant, Generation Segment, IOU Sub-segment. We had 4 member resignations, Maryland People’s Counsel (Seva Diakoparaskevas) Wholesale Electric Quadrant, End User Segment, Compret Sub-segment, Gulf Power Company (J. Thomas Kilgore) Retail Electric Quadrant, Distribution Segment, Mississippi Power Company (Dorman Davis) Retail Electric Quadrant, Distribution Segment, and Constellation Energy (Michael Gildea) Wholesale Electric Quadrant, Generation Segment, Merchant Sub-segment.
- **July 31, 2008:** Membership in July is 324. Membership by quadrant is: 130 (WGQ), 23 (REQ), 20 (RGQ), 151 (WEQ). Year to date, we have had 14 new memberships (6 – WEQ, 1 – REQ, 1 – RGQ, 6 – WGQ) and 26 member resignations (5 – WGQ, 4 – REQ, 7 – RGQ, 10 – WEQ). We began the year with 336 members (127 (WGQ), 26 (REQ), 26 (RGQ), 157 (WEQ)). In July, we saw two new members join, Goodrich Petroleum Company, LLC (Bill Hebenstreit) Wholesale Gas Quadrant, Services Segment and Noble Energy, Inc. (Richard D. Smith) Wholesale Gas Quadrant, Producer Segment. We had two member resignations Equitable Gas Company (Steve Rafferty) Wholesale Gas Quadrant, LDC Segment and Sacramento Municipal Utility District (W. Shannon Black) Wholesale Electric Quadrant, Generation Segment, Muni/Coop Sub-segment.
- **August 31, 2008:** Membership in August is 326. Membership by quadrant is: 130 (WGQ), 24 (REQ), 20 (RGQ), 152 (WEQ). Year to date, we have had 16 new memberships (7 – WEQ, 2 – REQ, 1 – RGQ, 6 – WGQ) and 26 member resignations (5 – WGQ, 4 – REQ, 7 – RGQ, 10 – WEQ). We began the year with 336 members (127 (WGQ), 26 (REQ), 26 (RGQ), 157 (WEQ)). In August, we saw two new members join, North Carolina Advanced Energy Corporation (Robert K. Koger) Retail Electric Quadrant, Supplier Segment and Black Hills Corporation (Larry D. Williamson) Wholesale Electric Quadrant, Transmission Segment, IOU Sub-segment. We had no member resignations for the month of August.
- **September 30, 2008:** Membership in September is 322. Membership by quadrant is: 129 (WGQ), 22 (REQ), 20 (RGQ), 151 (WEQ). Year to date, we have had 16 new memberships (7 – WEQ, 2 – REQ, 1 – RGQ, 6 – WGQ) and 30 member resignations (6 – WGQ, 6 – REQ, 7 – RGQ, 11 – WEQ). We began the year with 336 members (127 (WGQ), 26 (REQ), 26 (RGQ), 157 (WEQ)). In September, we had no members join. We had 4 member resignations Salt River Project Agricultural Improvement & Power District (Wendy Weathers and Mark B. Bonsall) Wholesale Electric Quadrant, Distribution Segment, Other Sub-segment, TXU Energy Retail (Felecia Lokey) Retail Electric Quadrant, Supplier Segment, ista North America (Charles Porter) Retail Electric Quadrant, Supplier Segment, and National Grid USA (Bruce Garcy) Wholesale Gas Quadrant, LDC Segment.
- **October 30, 2008:** Membership in October is 325. Membership by quadrant is: 133 (WGQ), 23 (REQ), 20 (RGQ), 149 (WEQ). Year to date, we have had 21 new memberships (7 – WEQ, 3 – REQ, 1 – RGQ, 10 – WGQ) and 32 member resignations (6 – WGQ, 6 – REQ, 7 – RGQ, 13 – WEQ). We began the year with 336 members (127 (WGQ), 26 (REQ), 26 (RGQ), 157 (WEQ)). In October, we saw five new members join, Advantage IQ, Inc. (Suzanne Figy) Retail Electric Quadrant, End User Segment, Devon Energy Corporation (Bill Green) Wholesale Gas Quadrant, Producer Segment, Husky Energy Marketing, Inc. (Jan Bindon) Wholesale Gas Quadrant, Producer Segment, Husky Gas Marketing, Inc. (Jan Bindon) Wholesale Gas Quadrant, Producer Segment, and Husky Marketing and Supply Company (Jan Bindon) Wholesale Gas Quadrant, End User Segment. We had two member resignations, Alleghany Energy, Inc. (Terri Grabiak) Wholesale Electric Quadrant, Transmission Segment, IOU Sub segment and American Transmission Company LLC (Flora Flygt and Kait Janu) Wholesale Electric Quadrant, Transmission Segment, ITC Sub segment.
- **November 30, 2008:** Membership in November is 325. Membership by quadrant is: 132 (WGQ), 23 (REQ), 20 (RGQ), 150 (WEQ). Year to date, we have had 22 new memberships (8 – WEQ, 3 – REQ, 1 – RGQ, 10 – WGQ) and 33 member resignations (7 – WGQ, 6 – REQ, 7 – RGQ, 13 – WEQ). We began the year with 336



North American Energy Standards Board

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members (127 (WGQ), 26 (REQ), 26 (RGQ), 157 (WEQ)). In November, we saw one new member join, American Wind Energy, Inc. (Robert Gramlich) Wholesale Electric Quadrant, Generation Segment, Merchant Subsegment. We had one member resignation EnergySouth Midstream, Inc. (Russell Murrell) Wholesale Gas Quadrant, Services Segment.

- 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)). In December, we saw five new members join, JP Morgan Ventures Energy Corporation (Paul Tramonte) Wholesale Gas Quadrant, Producer Segment, Cheniere Pipeline Company (Whit Scott) Wholesale Gas Quadrant, Pipeline Segment, EnerNOC, Inc. (Aaron Breidenbaugh) Wholesale Electric Quadrant, End Users Segment, Equitrans, LP (Joseph M. Dawley) Wholesale Gas Quadrant, Pipeline, and The United Illuminating Company (Rose Pysh) Wholesale Electric Quadrant, Transmission Segment. We had three member resignations, Northern Indiana Public Service Company (NiSource Inc. – George Simmons) Retail Gas Quadrant, Distribution Segment, Luminant (Mike Grim) Wholesale Electric Quadrant, Marketers/Brokers Segment, and New York State Department of Public Service (William Heinrich) Wholesale Electric Quadrant, End Users Segment.

Meeting Statistics YE 2008

Month	Event	WEQ	WGQ	Retail	Joint	Board
January	Meetings/Hours	8/39	6/29	2/9.5	5/28	0/0
	Conf. Calls/Hours	9/34	1/2	1/3	4/5	0/0
February	Meeting/Hours	6/33	4/18.5	0/0	2/6	0/0
	Conf. Calls/Hours	5/27	2/7	1/6	0/0	0/0
March	Meeting/Hours	7/38	5/25	1/2	1/6	3/9
	Conf. Calls/Hours	7/24	0/0	1/6	3/4	0/0
April	Meeting/Hours	3/18	4/19.5	0/0	4/21	0/0
	Conf. Calls/Hours	13/54.5	0/0	0/0	1/2	0/0
May	Meeting/Hours	6/34	4/19	5/21	1/5	0/0
	Conf. Calls/Hours	9/43	0/0	0/0	1/1	0/0
June	Meeting/Hours	6/42	6/32	5/21.5	1/7	2/5
	Conf. Calls/Hours	6/32	7/3	1/5	0	0
July	Meeting/Hours	5/27	3/15	3/9	2/8	0
	Conf. Calls/Hours	11/11.5	7/15.5	0	2/5.5	0
August	Meeting/Hours	4/20	3/13	0	0	1/7
	Conf. Calls/Hours	4/12	0	0	2/3	0
September	Meeting/Hours	4/26	2/5.5	1/2	3/17	4/14
	Conf. Calls/Hours	5/20	0	2/6	0	1/1
October	Meeting/Hours	2/12	5/28.5	2/10.5	1/8	0
	Conf. Calls/Hours	7/27	3/6.5	0	1/1.5	0
November	Meeting/Hours	6/37	5/24.5	4/13	3/13.5	0
	Conf. Call/Hours	2/6	2/4.5	0	0	0
December	Meeting/Hours	5/25	2/12	1/2	1/7	2/5
	Conf. Call/Hours	3/13	2/3.5	2/6	4/4.5	0



North American Energy Standards Board

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Meeting Statistics YE 2008

Month	Event	WEQ	WGQ	Retail	Joint	Board
Total	Meetings/Hours	62/351	49/241.5	24/90.5	24/126.5	12/40
	Conf. Calls/Hours	81/304	24/42	8/32	18/26.5	1/1

Product Access YE 2008:

- **Monthly:** The [copyright policy and list of companies](#) with authorized access to our standards is prepared monthly and posted on the NAESB web site. It includes all companies who have legal access to the NAESB standards.
- **December 31, 2008:** Statistics for purchases of standards are maintained monthly and can be seen below as of December 31, 2008.

Purchases of NAESB Products as of December 31, 2008

Product	J	F	M	A	M	J	J	A	S	O	N	D	Total
NAESB Home Page Access for Password Protected Area (\$3500)	0	0	1	0	0	0	0	0	1	0	0	0	2
NAESB WGQ / REQ / RGQ Internet Electronic Transport Manual, Version 1.0 (\$150/\$900)	0	0	0	0	0	0	0	0	0	0	0	0	0
WGQ Printed NAESB Business Practice Standards Booklet (1 of 2 or 2 of 2) (Version 1.7) (\$100) <i>NO LONGER SOLD</i>	3	0	0	0	0	0	0	0	1	0	0	0	4
WGQ Printed NAESB Business Practice Standards Booklet (1 of 2 or 2 of 2) (Version 1.8) (\$100) <i>NO LONGER SOLD</i>	1	0	0	2	0	0	0	0	0	0	0	0	3
Retail Base Contract for Sales/Purchase of Natural Gas/Electricity (\$50)	0	0	0	0	0	1	1	3	0	0	0	0	5
WGQ Base Contract for Sales/Purchases of Natural Gas/FTAA/OBA (Version 1.7) (\$50 ea)	0	0	0	2	0	0	0	0	0	0	0	0	2
WGQ Base Contract for Sales/Purchases of Natural Gas/FTAA/OBA (Version 1.8) (\$50 ea)	6	3	13	7	8	8	8	4	6	1	4	2	70
WGQ Electronic CD-Rom of Standards Manuals (Versions other than 1.7) (\$200)	0	0	0	1	0	0	0	0	0	0	1	0	2
WGQ Electronic CD-Rom of Standards Manuals (Version 1.7) (\$150/\$900)	3	0	0	0	0	0	1	1	0	0	0	0	5
WGQ Electronic CD-Rom of Standards Manuals (Version 1.8) (\$150/\$900)	9	2	4	2	1	0	1	2	0	0	4	0	25
WEQ Printed NAESB Business Practice Standards Booklet (\$100) <i>NO LONGER SOLD</i>	2	0	1	0	0	1	1	2	0	0	0	0	7
WEQ Electronic CD-Rom of Standards Manuals (\$150/\$900)	1	2	1	1	1	0	1	2	1	2	1	2	15
NAESB WGQ Contracts Course/ eTariff Workshop CD-Rom	0	0	0	19	0	0	0	0	0	64	53	0	136
NAESB WGQ Version 1.8 (Advanced Release of Final Actions) (\$50)	0	0	0	0	0	0	0	0	0	0	0	0	0
Printed REQ/RGQ Model Business Practices Booklet (\$100) <i>NO LONGER SOLD</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
NAESB REQ/RGQ Model Business Practices CD-Rom (\$150/\$900)	0	0	0	0	0	0	0	1	0	0	0	0	1
Total	25	7	20	34	10	10	13	15	9	67	63	4	277



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FINANCIAL REPORT YEAREND 2008 – ACCRUAL BASED

BALANCE SHEET

Assets	
Current Assets	\$480,393.66
Accounts Receivable	\$312,500.00
Fixed Assets	\$50,108.64
Other Assets	\$10,277.94
Total Assets	<u>\$853,280.24</u>
Liability & Equity	
Deferred Revenue	\$1,175,333.33
Accounts Payable	\$52,132.82
Retained Earnings	(\$256,160.71)
Net Income	(\$118,025.20)
Total Liability and Equity	<u>\$853,280.24</u>

INCOME AND EXPENSE

Income	\$1,675,986.75
Expense	\$1,794,011.95
Net Income	<u>(\$118,025.20)</u>

INCOME AND EXPENSES TO BUDGET - YE

2008 YE Budget for Income	\$1,769,900.00
Income Variance (over budget)	(\$93,913.25)
2008 YE Budget for Expenses	\$1,731,147.00
Expenses Variance (over budget)	(\$62,864.95)

YEAR END ANALYSIS

2008 Budget	\$1,769,900.00
Revenue YE	\$1,675,986.75
Expenses YE	\$1,794,011.95
Difference - Revenue - Expenses	(\$118,025.20)

CASH BASIS ANALYSIS

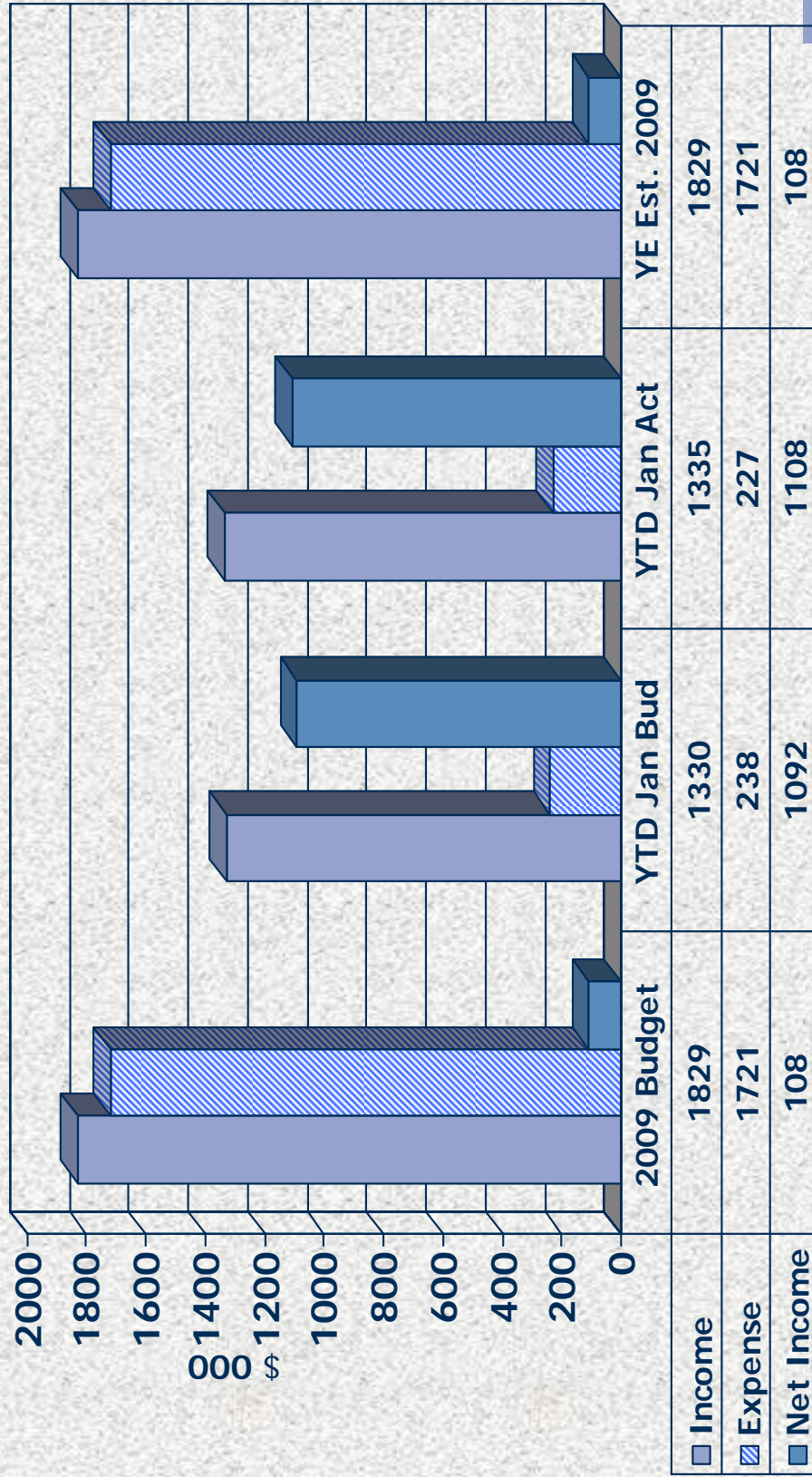
Beginning Balance 1-1-08	\$498,317
Total Cash Income	\$1,753,120
Total Costs	\$1,788,131
Ending Balance	\$463,306

ACCOUNTS RECEIVABLE ANALYSIS

Accounts Receivable as of December 2008	\$312,500.00
Items More than 90 Days Outstanding	\$10,000.00
Items 90 Days Outstanding	\$15,000.00
Items 60 Days Outstanding	\$0.00
Items 30 Days or Less Outstanding	\$5,000.00
Items Related to 2009 Membership Dues	\$282,500.00

North American Energy Standards Board Board of Directors Meeting – 3-26-09

As of January 2009 Accrual Based Income and Expenses





North American Energy Standards Board

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Membership YTD 2009:

- 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).
- March 11, 2009:** Membership in March is 317. Membership by quadrant is: 131 (WGQ), 23 (REQ), 18 (RGQ), 145 (WEQ). Year to date, we have had three new memberships (2 – WEQ, 0 – REQ, 0 – RGQ, 1 – WGQ) and 13 member resignation (6 – WGQ, 0 – REQ, 1 – RGQ, 7- WEQ). We began the year with 327 members (135 (WGQ), 23 (REQ), 19 (RGQ), 150 (WEQ)). In March we had no new members join. We had three member resignations Exelon Corporation – PECO Energy (WEQ, Distribution, IOU). Hess Corporation (WGQ, Services), and Lehman Brothers Commodity Services, Inc. (WGQ, Services).

Meeting Statistics YTD 2009

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					
	Conf. Calls/Hours					
May	Meeting/Hours					
	Conf. Calls/Hours					
June	Meeting/Hours					
	Conf. Calls/Hours					
July	Meeting/Hours					
	Conf. Calls/Hours					
August	Meeting/Hours					
	Conf. Calls/Hours					
September	Meeting/Hours					



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FINANCIAL REPORT YEAR-TO-DATE 2009 – ACCRUAL BASED, AS OF JANUARY 31, 2009

BALANCE SHEET

Assets	
Current Assets	\$376,925.31
Accounts Receivable	\$353,500.00
Fixed Assets	\$42,359.15
Other Assets	\$10,277.94
Total Assets	\$783,062.40
Liability & Equity	
Deferred Revenue	\$24,375.00
Accounts Payable	\$24,531.44
Retained Earnings	(\$374,185.91)
Net Income	\$1,108,341.87
Total Liability and Equity	\$783,062.40

INCOME AND EXPENSE

Income	\$1,335,737.82
Expense	\$227,395.95
Net Income	\$1,108,341.87

INCOME AND EXPENSES TO BUDGET - YTD

2009 YTD Budget for Income	\$1,329,985.75
Income Variance (over budget)	(\$5,752.07)
2009 YTD Budget for Expenses	\$237,780.75
Expenses Variance (under budget)	(\$10,384.80)

YEAR END ANALYSIS

2009 Budget	\$1,829,143.48
Revenue YTD Actual	\$1,335,737.82
Remaining Revenue Estimated through YE	\$493,405.66
Estimated YE Revenue	\$1,829,143.48
Expenses YTD Actual	\$227,395.95
Remaining Expenses Estimated through YE	\$1,493,330.84
Estimated YE Expenses	\$1,720,726.79
Difference – YE Revenue – YE Expenses	\$108,416.69

CASH BASIS ANALYSIS

Beginning Balance 1-1-09	\$463,306
Total Cash Income	\$143,779
Total Costs	\$245,816
Ending Balance	\$361,269

ACCOUNTS RECEIVABLE ANALYSIS

Accounts Receivable	\$353,500.00
Items more than 90 Days Outstanding	\$10,000.00
Items 90 Days or more Outstanding	\$10,000.00
Items 60 Days Outstanding	\$15,000.00
Items 30 Days or less Outstanding	\$318,500.00



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via posting

TO: NAESB Web Site for Posting
RE: Notes from the NAESB Advisory Council Meeting – February 14, 2009
DATE: March 5, 2009

NORTH AMERICAN ENERGY STANDARDS BOARD ADVISORY COUNCIL MEETING NOTES
Renaissance Washington Hotel – Washington, DC
February 14, 2009 – 4:00 PM to 6:00 PM Eastern

1. Welcome

Mr. Ellsworth opened the meeting and welcomed the Advisory Council members and observers. Mr. Boswell read the antitrust guidelines. The attendees introduced themselves. The meeting materials for this meeting were provided to the attendees and can be found on the NAESB website.¹ The agenda² as posted was adopted through consensus.

2. Primer and Overview of NAESB

Ms. McQuade reviewed a primer and overview of the organization.³ The Gas Industry Standards Board (GISB) was incorporated in 1994, with the approval of the Natural Gas Council, to develop business practice standards and communications and e-commerce protocols for the interstate natural gas industry. The effort to establish the organization's structure was a two year process. In 2002, the GISB was restructured to NAESB and its scope was expanded to develop and maintain business practice standards in the wholesale and retail gas and electric markets. NAESB is divided into four quadrants to support the wholesale gas and electric and retail gas and electric markets. Each quadrant is further divided into segments to reflect the market structure. The organization is governed by a single Board of Directors and an Executive Committee in each of the four quadrants. The authority of these governing bodies is bifurcated so that the Executive Committees are responsible for the actual standards development, while the Board of Directors is responsible for the governance, strategy and funding of the organization. NAESB is an American National Standards Institute (ANSI) accredited standards development organization and maintains this accreditation by following the ANSI principles which ensure an open and balanced process. The standards, that are typically developed by subcommittees and approved by the Executive Committee, are subject to "balanced voting" at the subcommittee level and a supermajority vote, with a requirement that 40% of each segment support the standard, at the Executive Committee level. NAESB has published and currently maintains Version 2.0 Wholesale Electric Quadrant ("WEQ") standards, Version 1.8 Wholesale Gas Quadrant ("WGQ") standards, and Version 1.0 Retail standards. These publications are copyrighted and the federally jurisdictional sets of standards have been filed with FERC.

3. Update on Quadrant Activities

Ms. McQuade provided an update of the activities included on the annual plans for 2009:

- Review of 2009 WEQ Annual Plan:⁴ There was a strong focus on FERC Order No. 890 in 200, which resulted in the publication of the Version 2.0 WEQ standards. The FERC Order No. 890 efforts will continue and should

¹ The meeting materials can be downloaded (<http://naesb.org/pdf4/advisory021409materials.doc>) from the NAESB web site.

² The agenda can be downloaded (<http://naesb.org/pdf4/advisory021409a.doc>) from the NAESB web site.

³ The primer can be downloaded (http://www.naesb.org/misc/advisory_primer021409.pdf) from the NAESB web site.

⁴ The 2009 WEQ Annual Plan can be downloaded (http://www.naesb.org/pdf4/draft_weq_2009_annual_plan.doc) from the NAESB web site.



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be complete by the end of 2009. The modifications and new standards resulting from this work will be included in subsequent Version 2.1 and Version 2.2 WEQ standards. The WEQ will also continue focus on demand side management and energy efficiency standards development throughout 2009. The business practice standards for measurement and verification for demand response products and services in ISO/RTO footprint areas are out for ratification until March 16, 2009. The technical development of these standards is included on the 2009 Annual Plan as item 4.b.

- Review of Joint RGQ and REQ 2009 Annual Plan:⁵ The retail quadrants are continuing to provide support for the customer choice programs and are working to complete the Texas registration agent. They are also drafting electronic billing standards that will be applicable to all of the states and will develop the criteria for a NAESB Certification checklist to be used in the NAESB Certification Program. Moving forward, the main focus of the quadrants will be the DSM and EE effort. Development of the retail measurement and verification standards for demand response programs is underway and expected to be complete during the second quarter 2009. These standards are being modeled after the wholesale standards and will be similar.

Mr. Freitas noted that California may have already developed the “Consumer Disclosure Statement” included on the 2009 Annual Plan as item 12 and suggested that NAESB discuss the item with other NARUC members.

- Review of 2009 WGQ Annual Plan:⁶ The WGQ is continuing to work on the technical aspects of the capacity release standards in response to FERC Order Nos. 698 and 712. They are expected to be complete during the second quarter 2009 and will be included in the WGQ Version 1.9 that is scheduled to be published later this year.

4. Discussion on Specific Activities

Ms. McQuade provided the following updates regarding various projects.

- Gas-Electric Interdependency: In response to FERC Order No. 698, the WGQ developed standards for increased receipt and delivery point flexibility through the use of redirects of scheduled quantities as well as, standards providing for index-based pricing for capacity release transactions. The WGQ Executive Committee (“EC”) approved a recommendation of no action concerning modifications to the intra-day nomination timeline. NAESB filed a report with FERC detailing the activities on September 3, 2009⁷. As noted above, the WGQ is nearing completion of the technical implementation of the capacity release standards. After the technical implementation piece has been ratified, it will be filed in a report to FERC. Additionally, the WGQ Business Practice Subcommittee (“BPS”) will be working jointly with the WEQ BPS to provide enhanced granularity for public utilities in identifying critical operational flow orders. Ms. Davis noted that the subcommittees have met once to address the item and that the issue may be resolved through education and training.
- OATT Reform: NAESB filed the Version 2.0 WEQ standards on August 29, 2008 and subsequently published the standards on September 30, 2008. This publication contained the bulk of the FERC Order No. 890 Available Transfer Capability (“ATC”) related standards, as well as several other FERC Order No. 890 related and non-FERC Order No. 890 related standards. The NAESB office is currently working to file the Version 2.1 WEQ standards with the FERC by February 19, 2009. This publication will contain the remaining ATC related standards and a few other items ratified by the organization since the Version 2.0 publication. As previously noted, the remaining FERC Order No. 890 items are expected to be complete by the end of 2009 and will be published as the Version 2.2 WEQ standards.

⁵ The 2009 Joint Retail Annual Plan can be downloaded (http://www.naesb.org/pdf4/draft_retail_2009_annual_plan.doc) from the NAESB web site.

⁶ The 2009 WGQ Annual Plan can be downloaded (http://www.naesb.org/pdf4/draft_wgq_2009_annual_plan.doc) from the NAESB web site.

⁷ The report can be downloaded (http://www.naesb.org/pdf3/ferc090308_order_698_filing.pdf) from the NAESB web site.



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- **eTariff:** NAESB has held three eTariff workshops since the NAESB standards were adopted by FERC in FERC Order No. 714 on September 19, 2008. The workshops have been well attended and the organization is planning to hold a vendor fair in the near future. A vendor list has been created and is available on the NAESB web site.⁸
- **DSM-EE Activities (Retail and WEQ):** The measurement and verification aspects of several demand response products and services were identified and included in standards that were approved by the WEQ EC on February 10, 2009. The standards passed without opposition and are out for ratification until March 16, 2009. There were three main concerns raised regarding the standards during the formal comment period. The first concern was that the standards were too broad and too much latitude was given to the system operator. The second concern was that the word “frame work” was removed from the title of the standards, which concerned the participants that wanted to make it clear that the effort was not complete and that more detailed standards would follow. In response to the first two concerns, an annual plan item was added as Phase 2 stating that more detailed technical measurement and verification standards will be developed. The third concern was that the standards were created and dominated by a single segment. It has been acknowledged that the ISOs and RTOs were essential in developing the matrix and resulting standards; however, the NAESB voting rules and process prevents any single segment from dominating any work product. The standards were fully vetted through the NAESB process and were debated at length by the wide variety of participants involved in the effort.

As noted previously, the retail quadrants have developed draft standards based upon the wholesale standards and are expected to be posted for an informal comment period the first quarter 2009. The retail participants are in the process of reviewing the wholesale definitions to ensure that the retail definitions are consistent. The group is also coordinating their effort with the Association of Edison Illuminating Companies concerning the technical implementation for load forecasting.

5. Resources, Membership and Retail Restructuring

As of February 9, 2009, NAESB has 321 members, which represents a marginal drop in membership since this time last year. In response to Board direction at the December 18, 2008 meeting, the Retail Structure Review Committee reviewed the current structure of the Retail Gas and Retail Electric Quadrants to determine what action, if any, should be taken to address the Quadrants’ membership issues. The committee determined that the segment structure of the two quadrants should be modified to more accurately reflect the current market conditions.⁹ The proposed modifications will be discussed at the upcoming Board meeting on March 26, 2009.

6. New Business

Mr. DeBoissiere initiated discussion by asking the participants if any consideration had been given to requesting funding from the Department of Energy, per the recently approved stimulus package. Mr. Freitas responded that the development of the Smart Grid and, specifically, the smart meter technology will create a challenge and an opportunity for the organization to develop business practice standards. Mr. Gee suggested that the organization designate some members to review the bill and determine if there are opportunities in the energy market that have not been contemplated and determine if additional money to address these opportunities is necessary. Ms. Bailey cautioned that certain obligations may arise if funding is accepted from a governmental entity. Mr. Freitas stated that he believes the digital grid and the carbon market are two issues that will create business opportunities for the organization in the near future. Mr. DeBoissiere noted that maintaining the business practice standards for the Open Access Same-Time Information System (“OASIS”) in a changing market will be difficult and could require some additional funding. Mr. Ellsworth noted that the purpose of the bill is to stimulate the economy. Mr. Freitas responded that the President has stated that the implementation of a digital grid will stimulate the economy. Mr. Desselte asked how an organization such as NAESB, that does not lobby, request this type of funding. Mr. Freitas

⁸ Vendor list (http://www.naesb.org/pdf4/etariff_vendors_2009.pdf)

⁹ Retail Structure Review Committee – draft recommendation (<http://www.naesb.org/pdf4/rsrc020409a3.doc>)



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stated that when a large policy is introduced the Department of Energy will seek out an organization like NAESB. Mr. Slutz stated that the Department of Energy will be conducting pre-scoping before allocating money and that NAESB should ensure that they are included on the list of organizations being considered for funding. Mr. Boswell noted that the organization took steps last year to ensure that the organization was on sound financial footing and if the climate has changed NAESB should work with the Department of Energy to move forward. Ms. McQuade thanked the members for their guidance.

Mr. Boswell acted as chair of the meeting for the nomination of 2009-2010 chairman for the Advisory Council. Mr. Pearce nominated Mr. Ellsworth to serve as the chair of the Advisory Council for 2009-2010 and Mr. Freitas seconded the motion. The motion passed unanimously. Mr. Ellsworth was welcomed as the new officer and thanked for his many years of service to NAESB and GISB.

7. Adjourn

The meeting adjourned at 6:15 PM Eastern by consensus.



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8. Attendance

Advisory Council Members in Attendance

Bruce Ellsworth, Chair	New York State Reliability Council
Vicky Bailey	BHMM Energy Services, LLC
Diane Barney	New York State Department of Public Service
Alex DeBoissiere	United Illuminating Company
Christopher Freitas	Department of Energy
Robert Gee	The Gee Strategies Group
W. Robert Keating	Massachusetts Department of Public Utilities
Joelle Ogg	Brunenkant & Cross, LLP
Thom Pearce	Ohio Public Utilities Commission
Howard Shafferman	Ballard, Spahr, Andrews and Ingersoll
Jim Slutz	Department of Energy

Board Members in Attendance

Valerie Crockett	Tennessee Valley Authority
Michael Desselle	Southwest Power Pool

Guests in Attendance

Dale Davis	Williams Gas Pipeline
Will Johnson	Visage Energy
Bill Lohrman	FERC
Robin Lunt	NARUC
Daryl-Lynn Roberts	Visage Energy
Marvin Rosenberg	Independent

NAESB Staff in Attendance

Rae McQuade	NAESB President
Bill Boswell	NAESB General Counsel
Jonathan Booe	NAESB Counsel
Veronica Thomason	NAESB Staff



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March 11, 2009

TO: NAESB Resources committee
FROM: Rae McQuade, NAESB President and COO
RE: Membership Analysis, Vacancies on the Board and EC, Membership Prospects – March 11, 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) groups, (d) long-term.
- (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



North American Energy Standards Board

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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	mddesselle@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
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
WEQ	Ron Mucci, Ron Mucci Consulting, LLC (representing Entegra Power Group, LLC)	713- 550-6756	ron.mucci@yahoo.com
WGQ	Mike Novak, National Fuel Gas Distribution	716-857-7884	novakm@natfuel.com
WGQ	Jim Templeton, Comprehensive Energy Services	713-759-6999	jtemplton@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
Accenture	R. McQuade	John Bartley – sent membership packet 6/26/2008, sent letter 12/17/2008	D. Rager
Clarity Systems	eTariff	Kenneth Fritz – phone 03/03/2009, sent membership information 03/05/2009	D. Rager
Comverge			S. Brown, R. True
GreenSmith Energy Management Systems		Dr. Chen-Young – sent information on 12/3/08 as requested by R. McQuade	R. McQuade
Iberdrola Renewables	Office	Susan Cooley – sent information 1/27/2009, follow-up 3/11/2009 LVM	D. Rager
OPSI	G. Ogenyi	Raj Barua, Executive Director – sent packet 4/1/08	D. Rager, S. Brown
UIL Holding Corporation -- Connecticut Power and Light	office	Jim Torgerson, Rae has contacted regarding membership – will probably join by yearend.	R. McQuade
Virginia Citizens Consumer Council	office	Irene Leech. <u>Initial contact was Dave Koogler.</u> Possible interest in membership. Material sent.	D. Rager, D. Koogler will follow up on this lead



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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 –October 2008	R. McQuade, M. Desselle
Horizon	Resource Committee		S. Brown, R. McQuade, M. Desselle
Iberdola	Resource Committee		S. Brown, R. McQuade, M. Desselle
John Deere Wind	Resource Committee		R. True
Gamesa	Resource Committee		S. Brown



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Attachment 2c

NAESB Membership Prospects – Groups

Membership Prospects	Source	Contact/Notes	Assignment
End Users	Resources Committee	Should hold meetings with John Anderson for ideas after we begin the sessions for ISOs and RTOs.	S Brown/M Desselle
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. Has Joined – February 2007 Has Joined – March 2007 Has Joined – February 2007 Has Joined – February 2007 Has Joined – March 2007 Has Joined – March 2007 Has Joined – March 2007	S Brown/M Desselle
California ISO (CASIO) – Contact: Yakout Mansour Independent Electricity System Operator (IESO) – Contacts: Ron Falsetti and David Short New York Independent System Operator, Inc. (NYISO) – Contacts: Michael Calimano and Mark S. Lynch TranServ International, Inc. – Contact: Kevin Burns PJM Interconnection – Contact: Alicia Daugherty Alberta Electric System Operator – Contact: Diana Pommen ISO New England, Inc. – Contact: Matthew F. Goldberg			
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



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Attachment 2d

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	<i>Has Joined</i>	
British Columbia Transmission Corporation	NERC	<i>Has Joined</i>	
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		
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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Attachment 2d

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		
Nuclear Management Company, LLC	EEI		
OGE Energy Corporation - OG&E Electric Services	EEI - NERC	<i>Has Joined</i>	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		
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	<i>Has Joined</i>	M. Desselle
Wheelabrator Technologies Inc.	EPSA		
Wolf Creek Nuclear Operating Corporation	EEI		



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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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North American Energy Standards Board 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. (<i>rejoined</i>) Contact: Lori Leeder	Participation	May
WEQ	Generation	Westar Energy, Inc. Contact: Shah Hossain	Participation	June

** Membership dues not yet received.



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Attachment 3

North American Energy Standards Board New Members since January 2009

Quadrant	Segment	Contact and Company	Reason Joined	Month Joined
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



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Attachment 4

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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Attachment 4

North American Energy Standards Board Member Resignations in 2008

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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North American Energy Standards Board Member Resignations in 2009

Quadrant	Segment	Contact and Company	Reason Resigned	Month Resigned
WGQ	LDC	Cascade Natural Gas Corporation	Company decision to not renew due to resources (<i>May reconsider later in year</i>)	January
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
WGQ	Services	Hess Corporation	No reason given for non renewal	March
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
WEQ	Marketers/Brokers	North Carolina Electric Municipal Power Agency #1	Company decision to not renew – only keeping one membership	January
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	Marketers/Brokers	SUEZ Energy Marketing NA, Inc.	No reason given for non renewal	February
WGQ	Services	UBS Energy LLC	No reason given for non renewal	January
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 (<i>May reconsider later in 2010</i>)	January



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Attachment 5

North American Energy Standards Board December 9, 2008

Vacant Seats	Quadrant	Seat	Segment	Subsegment
14	Retail Electric	Board (7)	Supplier (3) End User (3) Service Providers (1)	
		Executive Committee (7)	End User (4) Services (1) Supplier (2)	
38	Retail Gas	Board (19)	Distribution (4) End User (6) Service Providers (3) Suppliers (6)	
		Executive Committee (19)	Distribution (2) End User (6) Service Providers (6) Suppliers (5)	
13	Wholesale Electric	Board (7)	Distribution/Load Serving Entities (LSE) (1)	IOU (at large) (1)
			Transmission (1)	IOU (1)
			Marketers/Brokers (1)	Not IOU Affiliated (at large) (1)
			End User (4)	End Use-Also in another segment (at large) (1) Commercial/Residential (at large) (1) Large Industrial (at large) (2)
		Executive Committee (6)	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 (1)	
		Marketers/Brokers (1)	Not IOU Affiliated (1)	
3	Wholesale Gas	Board (2)	LDC (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
REQ	e		Advantage IQ, Inc.	Suzanne Figy, Jami Boom	WA
RGQ	d		AGL Resources Inc.	Katrina Bond	GA
REQ	d		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
WEQ	m	iou	Ameren Services	Shawn Schukar	MO
REQ	d		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 - Ohio, Inc.	Mack Thompson, Chris Norton	OH
RGQ	d		American Public Gas Association (APGA)	Alonzo Weaver, Joe Stengel	PA



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Quadrant	Segment	Sub-Segment	Member Company	Contact	State / Province
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	ALB
WGQ	pr		Apache Corporation	Kelley Powell	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
WGQ	pl		Atmos Energy	Steve Easley	TX
WGQ	s		Ballard Natural Gas, LLC	Susan Thibodeaux	TX
REQ	d		Baltimore Gas & Electric Co.	Ruth Kiselewich, Phil Precht	MD
WGQ	l		Baltimore Gas & Electric Co.	Phil Precht	MD
RGQ	d		Baltimore Gas & Electric Company	Phil Precht	MD
WGQ	s		Barclays Bank PLC	Guy Kern-Martin	NY
WEQ	g	muni	Basin Electric Power Cooperative	Jason Doerr	ND



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Quadrant	Segment	Sub-Segment	Member Company	Contact	State / Province
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	OR
WEQ	m	fed	Bonneville Power Administration	Brenda Anderson	OR
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



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Quadrant	Segment	Sub-Segment	Member Company	Contact	State / Province
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	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		Chandeleur Pipe Line Company	Mary Anne Collins, Deborah Plattsmier	TX
WGQ	s		Cheniere LNG Marketing, Inc.	Mark Stubbe, Tammy Miller	TX
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	TX



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WGQ	pr		Cimarex Energy Co	Charlotte Baker	OK
WGQ	s		Citigroup Energy Inc.	Carrie Southard, Angela Davis	TX
WEQ	t	iou	Cleco Power, LLC	Cindy Guillot	LA
WGQ	l		Colorado Springs Utilities	Joe M. Holmes	CO
WGQ	pl		Columbia Gas Transmission	Claire Burum	VA
WEQ	e	enduse	Comprehensive Energy Services	Jim Templeton	TX
WGQ	e		Comprehensive Energy Services	Jim Templeton	TX
WEQ	g	merc	Conectiv Energy Supply, Inc.	Gloria Godson	DE
WGQ	pr		ConocoPhillips Gas and Power	Peter Frost	TX
REQ	d		Consolidated Edison Company of NY	Adrienne Austin	NY
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	MD
REQ	su		Constellation NewEnergy, Inc.	Janson Pollock	MD
WEQ	d	iou	Consumers Energy Company	Andrew C. Dotterweich, Frank Johnson	MI



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Membership Roster Sorted by Company

Quadrant	Segment	Sub-Segment	Member Company	Contact	State / Province
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	OK
REQ	su		Direct Energy Business Services	David Booty	TX
WEQ	g	iou	Dominion Energy Marketing, Inc.	Lou Oberski, Jalal Babik	VA
WGQ	l		Dominion Resources (Previously CNG)	Craig Columbo	VA
REQ	su		Dominion Retail	William Barkas, Richard Zelenko	VA
RGQ	su		Dominion Retail, Inc.	Richard A. Zollars	VA
WGQ	pl		Dominion Transmission, Inc.	Gary Sypolt, Iris King	VA
REQ	d		Dominion Virginia Power	David F. Koogler, Mary Edwards	VA



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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.	Barry Huddleston	TX
REQ	s		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
WEQ	g	merc	Edison Mission Marketing & Trade, Inc.	William Roberts	MA
WGQ	pr		El Paso Exploration & Production Company	Susan Lum, 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	TX
WEQ	i		Electric Reliability Council of Texas (ERCOT)	Bill Blevins	TX
WEQ	t	iou	Empire District Electric Company, The	Bary K. Warren	MO



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WGQ	pl		Enbridge Energy Company Inc	Terry McGill	TX
WGQ	pr		EnCana Corporation	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	TX
WGQ	pl		Equitrans, L.P.	Joseph M. Dawley	PA
RGQ	su		Exelon Energy	Sheree M. Petrone	PA
REQ	d		Exelon Energy Delivery	Toni Garza	IL
WEQ	m	iou	Exelon Generation - Power Team	Jack Crowley	IL



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WGQ	pr		ExxonMobil Gas & Power Marketing Company a division of Exxon Mobil Corporation	Jim Hanrahan	TX
WEQ	e	sgen	ExxonMobil Gas Marketing	Kerrie Anne Lanigan, Carol A. Nichols	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	Steven H. McElhane	FL
WEQ	g	muni	Florida Municipal Power Agency	Robert C. Williams	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
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



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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	TX
WGQ	pr		Husky Energy Marketing, Inc.	Jan Bindon	ALB
WGQ	pr		Husky Gas Marketing, Inc.	Jan Bindon	ALB
WGQ	e		Husky Marketing and Supply Company	Jan Bindon	ALB
WEQ	t	fed	Hydro - Quebec Transenergie	Michel Prevost	QUE
WEQ	t	itc	Hydro One Networks	Mark Graham	ONT
REQ	s		ICF International	David Pickles	DC
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		Integrays Energy Group, Inc.	David E. Wear	WI
RGQ	s		International LNG Alliance	David Sweet	DC



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RGQ	su		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	Michael S. Webster	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
WGQ	pr		Marathon Oil Company	Robin Perrine	TX



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WGQ	pr		Mewbourne Oil Company	Michael F. Shepard	TX
WEQ	d	muni	Michigan Public Power Agency	James R. Nickel, Daniel E. Cooper	MI
REQ	d		MidAmerican Energy	James E. Wilson	IA
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
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	Dolores Chezar	NY



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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	m	at large	Navigant Consulting, Inc.	Richard G. Smead, Laurie J. Oppel, Kenneth C. Lotterhos	TX
WEQ	d	muni	NCMPA1	Martin Summe	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	pr		Noble Energy, Inc.	Richard D. Smith	TX
WEQ	d	at large	North American Electric Reliability Corporation (NERC)	Gerry Adamski, Andy Rodriguez	NJ
REQ	su		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



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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.	Jennifer J. Vosburg, Alan Johnson	NJ
WEQ	m	iou	NV Energy	Sheryl Torrey	NV
WEQ	t	iou	NV Energy, Inc.	Patricia Englin	NV
REQ	e		Office of Public Advocate, State of Maine	Agnes Gormley	ME
WGQ	s		OGE Energy Resources, Inc.	Cary Metz	OK
REQ	d		Oncor	Larry Williford, Debbie McKeever	TX
WGQ	l		ONEOK	Richard Tangeman	OK
WGQ	pl		ONEOK Partners GP, LLC	Teri Tingler	NE
WEQ	g	merc	Ontario Power Generation	Colin Anderson, David Barr	ONT
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



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WEQ	t	iou	Otter Tail Power Company	Daryl Hanson, Larry Larson	MN
WGQ	pl		Ozark Gas Transmission, LLC	David A. Harrell	OK
WGQ	l		Pacific Gas & Electric	John Breen, Don Petersen	CA
WEQ	g	iou	PacifiCorp	Greg Maxfield	OR
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.	Reed R. Horting	TX
WGQ	s		Pemex Gas Y Petroquimica Basica	Juan Enrique Gonzalez Azuara	MEXICO
REQ	e		Pennsylvania Office Of Consumer Advocate	Tanya J. McCloskey, Sonny A. Popowsky	PA
RGQ	e		Pennsylvania Office of Consumer Advocate	Tanya J. McCloskey	PA
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



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WGQ	s		Platts	Bill Murphy	CO
WEQ	m	iou	Portland General Electric	John Jamieson	OR
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	d	muni	Public Power Council	Nancy Baker	OR
WEQ	m	iou	Public Service Company of New Mexico	Steven Maestas	NM
REQ	d		Public Service Electric & Gas	Terrence Moran	NJ
WGQ	l		Public Service Electric & Gas	David Wohlfarth	NJ



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WEQ	d	nd	Public Service Electric and Gas Company	Jeffrey C. Mueller	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
WEQ	g	at large	Qualedi, Inc	Stephen A. Morocco	CT
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	Reliant Energy Services	Trent Carlson	TX
WEQ	d	muni	Sacramento Municipal Utility District	Steve Sorey	CA
WGQ	e		Salt River Project Agricultural Improvement & Power District	Lori-Lynn C. Pennock	AZ
WEQ	m	fed	Salt River Project Agricultural Improvement and Power District	Richard Lehman	AZ
WEQ	t	fed	Salt River Project Agricultural Improvement and Power District	Wendy Weathers	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	WA



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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
WGQ	s		SolArc, Inc.	Mark Davis	TX
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	Bob Goss	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



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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	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	NC
RGQ	su		Sprague Energy Corp.	Paul Scoff	NH
REQ	s		Structure Group	Stacey Wood	TX
WGQ	s		SUEZ Energy Marketing NA, Inc.	Shirley Tidor	TX
WEQ	e	at large	Sungard	Andrew Tritch	TX
WGQ	s		SunGard	Lucia Nail	TX



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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	d	other	Tennessee Valley Authority	Tahnika Rodriguez, Dianne H. Nunez	TN
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.	Lisa Tiffin	CO
WEQ	t	muni	Tri-State Generation and Transmission Association, Inc.	Keith V. Carman	CO



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WEQ	t	iou	Tucson Electric Power Company	Raquel Aguilar, Judy Fregoso, Ed Beck	AZ
RGQ	d		UGI Utilities, Inc.	Paul Szykman	PA
WEQ	t	iou	United Illuminating Company, The	Rose Pysh	CT
WGQ	pl		Vector Pipeline L.P.	Amy Bruhn	MI
RGQ	su		Vectren Retail, LLC	Tami Wilson	IN
WGQ	s		Vega Energy Partners, Ltd.	Julie Pincus	TX
WEQ	g	muni	Vermont Public Power Supply Authority	William J. Gallagher	VT
WGQ	s		Virginia Power Energy Marketing, Inc.	Paul Pfeffer	VA
WGQ	l		Washington Gas Light Co.	Adrian Chapman , Ken Yagelski	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	g	at large	Western Electricity Coordinating Council	Michelle Mizumori, Louise McCarren	UT



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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	d		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	Tom Webb, 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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Current Quadrant Membership – Proposed Segment Structure Modifications

The purpose of this work paper is to facilitate discussions concerning modifications to the current segment structure of the Retail Quadrants. Two proposed segment structures for the Retail Quadrants were considered by the Retail Structure Review Committee. The scenario that garnered the most support is presented below. It was developed in response to the discussions held by the Retail Structure Review Committee during the January 15, 2009 and January 29, 2009 conference calls.

It is the position of the Retail Structure Review Committee that modifications to the current segment structure are necessary for the continued existence of the Retail Quadrants. When the Retail Quadrants were originally created, they were designed to support the market participants in the retail gas and electric markets for support of customer choice programs, and were defined with the expectation that there would be enough interest in membership in each of the segments to represent the segments nationally. This assumption was made based upon the state and federal policies supporting customer choice programs. Due to the loss of emphasis by the states on customer choice, the focus has shifted to demand side management and programs where aggregation provides large retailers such as JC Penney and Home Depot with cost saving efficiencies in both retail gas and retail electric markets. As such, the need for segments that describe specific functions has been reduced allowing for an opportunity to combine upstream, downstream, and non-distributor interests. Maintaining separation between distributors and other market participants will be necessary as they will clearly have a different interest than the other non-regulated market participants.



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

SCENARIO 1

- Suppliers/Service Providers Segment
- End Users/Regulatory Segment
- Distributors/Utilities Segment
- 4 seats for each Board and Executive Committee Segment
- Effective Date: June to 3rd Quarter, 2009
- 20 member minimum with that number achieved by the end of 2010

**NORTH AMERICAN ENERGY STANDARDS BOARD
2009 EXECUTIVE COMMITTEE TERMS – Retail Electric Quadrant**

SUPPLIERS/SERVICE PROVIDERS SEGMENT		TERM END:
Bill Barkas	Manager of Retail State Government Relations, Dominion Retail, Inc.	12-31-2009
Jansen Pollock	Manager of Regulatory Affairs, Constellation NewEnergy	12-31-2010
Jim Minneman	Controller, PPL Solutions LLC	12-31-2009
Jennifer Teel	Director – Business Solutions, EC Power	12-31-2009
Susan Munson	ERCOT Retail Market Liaison, Electric Reliability Council of Texas (ERCOT)	12-31-2010
UTILITIES SEGMENT		
Ruth Kiselewich	Director, Demand Side Management Programs, Baltimore Gas & Electric Company	12-31-2009
Patrick Eynon	Supervisor – Retail Access, Ameren Services	12-31-2009
Judy Ray	Industrial Segment Manager – Contract Administrator, Alabama Power Company	12-31-2010
Mary Edwards	Senior Customer Choice Analyst – Regulation and Competition, Dominion Virginia Power	12-31-2010

END USERS/PUBLIC AGENCIES SEGMENT
VACANT

**NORTH AMERICAN ENERGY STANDARDS BOARD
2009 EXECUTIVE COMMITTEE TERMS – Retail Gas Quadrant**

SUPPLIERS/SERVICE PROVIDERS SEGMENT		TERM END:
Richard Zollars	Director, Data Billing, Dominion Retail, Inc.	12-31-2009
UTILITIES SEGMENT		
Dan Jones	Supervisor, Certified Supplier Business Center, Duke Energy	12-31-2009
Leslie H. Nishida	Manager Gas Regulatory Services, Wisconsin Public Service Corporation	12-31-2009
Michael Novak	Assistant General Manager, National Fuel Gas Distribution Corporation	12-31-2010
Phil Precht	Management Consultant, Pricing & Regulatory Services Department, Baltimore Gas and Electric Company	12-31-2010



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END USERS/PUBLIC AGENCIES SEGMENT
VACANT

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

SUPPLIERS/SERVICE PROVIDERS SEGMENT	TERM END:
Robert K. Koger President, North Carolina Advanced Energy Corporation	12-31-2009
Jim Minneman Controller, PPL Solutions LLC	12-31-2009
David Pickles Vice President, ICF International	12-31-2009
J Cade Burks President, EC Power	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	TERM END:
Sonny Popowsky Consumer Advocate, Pennsylvania Office of Consumer Advocate	12-31-2009

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

SUPPLIERS/SERVICE PROVIDERS SEGMENT	TERM END:
Leigh Spangler President, Latitude Technologies Inc.	12-31-2010
Dave Darnell President & CEO, Systrends USA	12-31-2009
Greg Lander President, Capacity Center	12-31-2009

UTILITIES 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

END USERS/PUBLIC AGENCIES SEGMENT
VACANT

North American Energy Standards Board
Bylaws Addendum

Exhibit 4

Retail Electric Quadrant Procedures

Revised October 20, 2004

Section 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 of NAESB.

1.2 Definitions for the Purposes of this Exhibit

- A.** "EC Member" means a Member's representative serving on the EC.
- B.** "NAESB Office" means the administrative office of the Secretary of NAESB.
- C.** "REQ" means the Retail Electric Quadrant.
- D.** "REQ Designated Alternates" mean the group of individuals selected by each REQ Segment Membership to serve in the stead of REQ EC representatives who are unable to attend EC meetings.
- E.** "REQ EC" means the Executive Committee of the REQ.
- F.** "REQ Membership" means the Voting Members of the REQ collectively.
- G.** "REQ Segment" means one of the co-equal membership Segments of the NAESB Retail Electric Quadrant representing the following four (4) segments

NAESB Retail Electric Quadrant Procedures, Revised October 20, 2004
March 1, 2002 document was adopted by the Board of Directors on March 7, 2002

of the retail electric industry: Distributors, End Users, Services, and Suppliers.

- H. "Segment Membership" means the Segment Members collectively.
- I. "Segment Procedures" means the procedures attached to this document as exhibits for each of the Segments, as amended.

Section 2 Purposes, Scope, Activities & Policies

2.1 Purposes , Scope & Activities

A. Purpose

The purpose of the REQ of the North American Energy Standards Board (NAESB) is to propose, evaluate and adopt voluntary standards and model business practices to promote competitive, efficient and reliable service in the retail electric industry.

B. Scope & Activities

The REQ is to address issues and practices that are within the scope of NAESB and appropriate to electric usage at the individual consumer level; that is, usage by an individual, partnership, corporation, or other entity consuming electricity at one or more facilities served by an electric distributor.

The REQ shall work closely with other NAESB Quadrants to strive for consistency where proposed Standards and Model Business Practices affect those other Quadrants.

2.2 Policies

The Retail Electric Quadrant shall comply with the policies and procedures laid out in the Bylaws and the Certificate of Incorporation of NAESB.

2.3 Segment Organization & Membership Requirements

Each prospective Member shall declare the Segment with which they are to be identified.

1. Distributors
Persons engaged in the local distribution of electricity.
2. End Users

Persons that consume electricity, or who represent consumers of electricity.

3. Services

Persons that provide services to participants in the retail electric industry, including equipment manufacturers, equipment vendors, software providers, consultants, and other companies or individuals not otherwise eligible for membership in another Segment.

4. Suppliers

Persons engaged in the competitive sale of electricity to end users.

[There are no additional requirements in these procedures to those stated in Sections 3 & 4 of the NAESB Bylaws]

Section 5 Members

5.1 Voting Members

Membership and voting rights in the REQ of NAESB shall be open to any person that meets the following requirements:

- A.** The person has a significant business interest¹ in the retail electric market (or is a representative or Agent of such person), as determined by a simple majority of the Segment Membership, if challenged.
- B.** Representatives designated by any person in any Segment should have the authority to represent the interests of the person seeking to be a Segment Member.
- C.** Memberships in multiple Segments of the REQ are permissible for any person provided each membership is filed and declared with NAESB, the person meets the membership requirements of each Segment joined, and membership dues are paid for each Segment.
- D.** Only one membership per Segment is permissible for any person.
- E.** Multiple companies under common control within a corporate organization that desire to become Members must join individually. Members cannot extend their membership to their parent company, affiliates, or subsidiaries.
- F.** The person may be a trade association or an advocacy group representing a group of prospective Members, provided that the trade association or advocacy group meets the requirements defined by its declared Segment in Segment Procedures.

[There are no additional requirements in these procedures other than those stated for Sections 5.2 through 5.4 of the NAESB Bylaws]

¹ As used in this section, "significant business interest" specifically includes the interests of statutorily appointed consumer advocates.

NAESB Retail Electric Quadrant Procedures, Revised October 20, 2004
March 1, 2002 document was adopted by the Board of Directors on March 7, 2002

5.5 Removal of Members

Segment Members who do not have a significant business interest pertaining to the descriptions contained in Section 2.3 may be removed from Segment Membership by a simple majority vote of their declared Segment Membership.

Section 6 Meetings of the Members

All meetings held in association with the NAESB organization or the REQ are open to any interested person. From time to time, there may be joint meetings of the REQ with other Quadrants within NAESB, and Segments may meet jointly to transact Quadrant business.

Section 7 Board

7.1 Board Representation

The REQ shall elect Directors to the Board from each Segment in accordance with Segment Procedures.

7.2 Qualifications of Directors

A. Eligibility

To be eligible to serve as a representative on the NAESB Board of Directors, the Member's representative must

- 1) be willing to commit the time and resources necessary,
- 2) have the authority to fulfill the obligations as a REQ Director, and
- 3) 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.

B. One Member, One Seat Per Quadrant

No two Directors elected by the REQ may be employees of the same Member holding membership in multiple Segments within the Quadrant. This restriction does not prohibit election of two Directors from two affiliated companies within a holding company having individual Member status, or from two companies with a parent-subsidary relationship, provided that the two Directors from companies with such a relationship represent Members of differing Segments.

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March 1, 2002 document was adopted by the Board of Directors on March 7, 2002

C. One Office Per Member Representative

Directors elected from the REQ may not hold both a Board seat and a seat on the REQ EC at any point in time. If an REQ EC Member is elected as a Director from the REQ, the REQ EC seat is vacated when the Board seats the EC Member as a Director.

7.3 Number and Election of Directors

A. Number of Directors

The REQ shall elect sixteen (16) NAESB Directors. Each Segment of the Quadrant will elect four (4) Directors.

B. Election of Directors

Nominations for and election of all Directors will be in accordance with Segment Procedures, as follows:

In preparation for any election of NAESB Directors,

1. A nominating committee of five EC Members of the REQ consisting of one Member from each Segment plus the REQ EC Vice-Chair, shall identify a slate of potential candidates from the Segment Membership.
2. Other nominations may be made at or prior to the close of the REQ nomination period by any Segment Member eligible to serve on the Board of Directors by submitting the candidate names to the NAESB Office in a form as specified in NAESB Operating Procedures, if such requirements exist.
3. All nominations must be made and conveyed in writing to the NAESB Office no less than 31 days prior to the election date.

7.4 Term of Office

A. Terms

Directors shall be elected for two-year terms, with half of the terms expiring in alternating years.

1. Two Directors will be elected from each Segment each year to fill expiring terms.
2. Group A Director terms will expire in odd numbered years.
3. Group B Director terms will expire in even numbered years.
4. Term expiration will be in conjunction with the end of the operating year of NAESB or as otherwise defined by the Board, Certificate of Incorporation or Bylaws, as amended.

B. Limit on Number of Terms of Office

Directors elected from the REQ may run for re-election without restriction on the number of terms held.

C. Change of Affiliation

In the event that the Director

NAESB Retail Electric Quadrant Procedures,
March 1, 2002 document was adopted by the Board of Directors on March 7, 2002

Revised October 20, 2004

1. changes affiliation to another Member within the same industry Segment, the Director's term will continue until its natural expiration, provided that there is no other Director already representing the Director's new affiliation, in which case the Director changing affiliation will vacate the seat for election of a new Director;
2. is no longer affiliated with the electing industry Segment, the Director will vacate the seat for election of a new Director.

7.5 Vacancies

In the event that a Director resigns or otherwise vacates the Board seat, and more than 120 days remain in the term of office, the Segment will hold an election within 60 days to fill the vacant seat.

7.6 Removal of Directors

In addition to being subject to removal from office by the NAESB Board of Directors, Directors may also be removed from office for cause. The REQ Segment shall give the Director at least a 30-day notice of the proposed action and an opportunity to respond. A 67% majority of the applicable REQ Segment Membership shall be required to remove a Director. The vacant seat is to be refilled in accordance with the requirements of Section 7.5.

[There are no additional requirements in these procedures other than those stated in Sections 8 & 9 of the NAESB Bylaws]

SECTION 10 EXECUTIVE COMMITTEE

10.1 EC Representation

The REQ shall elect representatives to the EC from each Segment in accordance with Segment Procedures.

10.2 Qualifications of EC Members

A. Eligibility

To be eligible to serve as an EC Member, the Member's representative must

- 1) be willing to commit the time and resources necessary,
- 2) have the authority to fulfill the obligations as an EC representative, and
- 3) 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.

NAESB Retail Electric Quadrant Procedures,
March 1, 2002 document was adopted by the Board of Directors on March 7, 2002

Revised October 20, 2004

B. One Member, One Seat Per Quadrant

No two EC Members elected by the REQ may be employees of the same Member holding membership in multiple Segments within the Quadrant. This restriction does not prohibit election of two EC Members from two affiliated companies within a holding company having individual Member status, or from two companies with a parent-subsidary relationship, provided that the two EC Members from companies with such a relationship represent Members of differing Segments.

C. One Office Per Member Representative

Directors elected from the REQ may not hold both a Board seat and a seat on the REQ EC at any point in time. If an REQ EC Member is elected as a Director from the REQ, the REQ EC seat is vacated when the Board seats the EC Member as a Director.

10.3 Number and Election of EC Members

A. Number of EC Members

The REQ shall elect sixteen (16) EC Members. Each Segment of the Quadrant will elect four (4) EC Members.

B. Election of EC Members

Nominations for and election of all EC Members will be in accordance with Segment Procedures, as follows:

In preparation for any election of EC Members,

1. A nominating committee of five EC Members of the REQ consisting of one Member from each Segment plus the EC Vice-Chair, shall identify a slate of potential candidates from the Segment Membership.
2. Other nominations may be made at or prior to the close of the REQ nomination period by any Segment Member eligible to serve on the EC by submitting the candidate names to the NAESB Office in a form as specified in NAESB Operating Procedures, if such requirements exist.
3. All nominations must be made and conveyed in writing to the NAESB Office no less than 31 days prior to the election date.

C. Timing of Elections

Election of EC Members shall occur in the same month for all Segments of the REQ, and shall be coordinated by the NAESB Office.

D. Officers of the REQ EC

The REQ EC shall elect a Vice-Chair of the EC, and may elect a second Vice-Chair, both of whom shall serve for a period of one (1) calendar year. The Vice-Chair and, in his absence, the Second Vice-Chair, shall preside over the meetings of the REQ EC. Any EC Member who is a member of the REQ quadrant may be nominated for the REQ EC Vice-Chair position or Second

Vice-Chair position. It is encouraged, but not required, that the REQ EC Vice-Chair and Second Vice-Chair represent different segments of the REQ. After a two week nomination process where REQ EC Members can nominate, including self-nomination, the NAESB Office shall run an election and the candidates receiving the most votes from among the REQ EC Members will be announced as the officers of the REQ EC.

E. Meeting Minutes

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

10.4 Term of Office

A. Terms

EC Members shall be elected for two-year terms, with half of the terms expiring in alternating years.

1. Two EC Members will be elected from each Segment each year to fill expiring terms.
2. Group A EC Member terms will expire in odd numbered years.
3. Group B EC Member terms will expire in even number years.
4. Terms of office will end in conjunction with end of the operating year of NAESB or as otherwise defined by the Board of Directors, Certificate of Incorporation or Bylaws, as amended.

B. Limit on Number of Terms of Office

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

C. Change of Affiliation

In the event that the EC Member

1. changes affiliation to another Member within the same industry Segment, the EC Member's term will continue until its natural expiration, provided that there is no other EC Member already representing the EC Member's new affiliation, in which case the EC Member changing affiliation will vacate the seat for election of a new EC Member.
2. is no longer affiliated with the electing industry Segment, the EC Member will vacate the seat for election of a new EC Member.

10.5 Vacancies

In the event that an EC Member resigns or otherwise vacates the seat, and more than 120 days remain in the term of office, the Segment will hold an election within 60 days to fill the vacant seat, and a Designated Alternate will serve until a new EC Member is elected.

NAESB Retail Electric Quadrant Procedures, Revised October 20, 2004
March 1, 2002 document was adopted by the Board of Directors on March 7, 2002

10.6 - Removal of EC Members

In addition to being subject to removal from office by the NAESB Board of Directors, EC Members may also be removed from office for cause. The REQ Segment shall give the EC Member at least a 30-day notice of the proposed action and an opportunity to respond. A 67% majority of the applicable REQ Segment Membership shall be required to remove an EC Member. The vacant seat is to be refilled in accordance with the requirements of Section 10.5.

10.7 Designated Alternates

A. Election of Designated Alternates

Each Segment of the REQ should 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.

Authority

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

1. **1** EC Members and Designated Alternates from the same Voting Member company cannot represent the same Segment at an EC meeting,
2. He or she has been designated to attend by an absent EC Member from his/her Segment or by the Vice Chair of the REQ EC,
3. The REQ 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 developed by the appropriate Segment Membership according to these REQ Procedures, and is on file with the NAESB Office.

B Selection of Designated Alternates

Each Segment should maintain a list of Designated Alternates sufficient to maintain full representation of the Segment at EC meetings despite the occasional absence of permanent EC Members. In selecting Designated Alternates, the process below should be followed:

- 1 The Segment's permanent EC Members should solicit the Segment's membership annually for names of Members who wish to be Designated Alternates.
- 2 All names of Segment Members whose memberships are in good standing will be accepted and submitted to the NAESB office for publication and comment.
 - a. Segment Members have thirty days to object to any names on the list
 - b. If an objection is raised and not accommodated by the EC Members developing the list, a vote of the Segment Members is taken to approve the list. A 67% affirmative vote of the Segment Members required for approval.
- 3 Any approved Designated Alternate on the list may be asked by the absent Member, or the Vice-Chair or Second Vice Chair of the REQ EC to attend the meeting in the place of the absent EC Member, subject to the following conditions:
 - a. The Designated Alternate must currently be a Segment Member in good standing
 - b. The Designated Alternate does not serve on the EC as a permanent member or as a Designated Alternate for another EC member at this same EC meeting.
 - c. The Designated Alternate meets any additional Segment-specific criteria established in the Segment procedures.
- 4 The approved list of Designated Alternates may be updated more frequently than annually, if needed to maintain full Segment representation at the EC meetings. The same process described above in 1 and 2 would be followed.

10.8 EC Meetings

A. REQ EC Meetings

REQ EC meetings shall be held at times and locations determined by the Chair or Vice-Chair of the REQ EC. EC Members may participate and vote by means of tele-conference or other electronic means unless in-person attendance is required of all EC Members by both the Chair and Vice-Chair of the EC, and subject to the attendance requirements of Article 10, Section 10.4(j) of the Bylaws.

B. Joint EC Meetings

In the event that the EC of the REQ meets jointly with an EC of another NAESB Quadrant, the choice of Quadrant EC 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.

10.9 EC Subcommittees

A. Establishing Subcommittees & Task Forces

The EC of the REQ shall set up its own subcommittees and task forces to deal with REQ-specific issues.

The EC may establish voluntary standing subcommittees or special purpose task forces to perform various functions required of the organization.

1. The Executive Committee will prepare a written statement of the purpose of the subcommittee or task force and the tasks to be performed, name the subcommittee or task force, and appoint a temporary chair.
2. The Temporary Chair will be a Member of the EC willing to perform the required startup tasks and to continue chairing the subcommittee / task force if elected by the Members after its first meeting.
3. The Temporary Chair shall
 - a) set up the first meeting of the subcommittee or task force.
 - b) prepare a meeting notice that:
 - (i) states the name and purpose of the subcommittee / task force,
 - (ii) solicits participation in the subcommittee / task force,and
 - (iii) announces the agenda for the first meeting.
 - c) post the meeting notice to all Members and non-Members via the NAESB website.
 - d) post the notice at least two weeks prior to the meeting date. Shorter time periods for notices of subsequent meetings will be permitted by a 75% vote of the participants attending a duly scheduled meeting.
4. All meeting notices shall be posted on the NAESB website and transmitted in writing, facsimile, or other electronic means to parties who have indicated an interest in the duly scheduled meeting.

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 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.

NAESB Retail Electric Quadrant Procedures, Revised October 20, 2004
March 1, 2002 document was adopted by the Board of Directors on March 7, 2002

[There are no additional requirements in these procedures other than those stated in Sections 11-17 of the NAESB Bylaws]

SECTION 18 AMENDMENTS

In order for these REQ Procedures to be amended, upon petition of at least five (5) REQ Members, the Vice Chair of the EC for the REQ shall announce an REQ meeting. Such announcement shall provide for at least a 30-day notice. In order to transact business at the REQ meeting, there shall be a quorum consisting of at least 33% of the REQ Membership. Following such meeting, the proposed resolution adopted at the meeting shall be sent out for comment, and the comments shall be distributed to all REQ Members in advance of a notational vote. Any REQ Member not choosing to vote shall be considered to have voted in favor of the proposed resolution. In order for a proposed resolution to take effect, it must be approved by at least 67% majority of REQ Members and 40% of each REQ Segment's Membership.

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NORTH AMERICAN ENERGY STANDARDS BOARD

BYLAWS ADDENDUM

EXHIBIT 3

RETAIL GAS QUADRANT PROCEDURES

13 **1 - DEFINITIONS**

14 **Section 1.1 Definitions Included in the NAESB Bylaws**

15 All capitalized terms, if not defined in Section 1.2, shall have the same definitions as specified in
16 the NAESB Bylaws and Certificate of Incorporation.

17 **Section 1.2 Definitions for the Purposes of this Exhibit**

18 The following terms have not been defined in Section 1.1 of the NAESB Bylaws and when used
19 in this Exhibit, shall have the meanings set forth below:

- 20 A. “NAESB Office” means the administrative office of the Secretary of NAESB.
- 21 B. “RGQ” means the Retail Gas Quadrant of NAESB.
- 22 C. “RGQ Designated Alternate” is defined as a person named by a Segment of the Retail Gas
23 Quadrant Segment, submitted to the NAESB office, to serve in place of a RGQ EC Member
24 who is unable to attend an EC meeting.
- 25 D. “RGQ EC” means the Executive Committee of the Retail Gas Quadrant of NAESB.
- 26 E. “RGQ EC Subcommittee” means a subcommittee established by the Executive Committee of
27 the Retail Gas Quadrant of NAESB.
- 28 F. “RGQ Members” means Voting Members of the Retail Gas Quadrant of NAESB that satisfy
29 the requirements of membership set forth in Section 5.1 and, if applicable, in the respective
30 Segment Procedures in this Exhibit.
- 31 G. “RGQ Segment” means one of the four co-equal Segments of the Retail Gas Quadrant of
32 NAESB.
- 33 H. “Segment Procedures” means the procedures attached to this document as exhibits for each
34 of the Segments, as amended.
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2 – PURPOSES, SCOPE, ACTIVITIES, AND POLICIES

Section 2.1 Purposes, Scope and Activities

A. Purpose

The purpose of the RGQ of NAESB is to propose and adopt voluntary model business practices or standards to promote more competitive, efficient and reliable service in the retail natural gas industry.

B. Scope & Activities

The RGQ is concerned with and tasked to handle natural gas related issues and practices that are within the scope of NAESB and typically addressed at the retail natural gas distribution level. The RGQ shall work closely with other NAESB Quadrants to mitigate inconsistencies where proposed standards and model business practices affect those other Quadrants.

Section 2.2 Policies

The RGQ shall comply with the policies and procedures laid out in the bylaws and the certificate of incorporation of NAESB. Further, the RGQ intends to operate in conformance with the principles of the umbrella organization, as established in Section 2.2 (b) of the NAESB Bylaws and in compliance with ANSI guidelines. As such, the RGQ encourages a widely based membership and has identified Segments, which reflect this principle of inclusiveness. Also consistent with this approach, the RGQ shall ensure that all meetings, including those of its Members, Executive Committee (EC), and Subcommittees and Task Forces, shall be open to all persons and that all minutes thereof shall be available to the public.

55 **Section 2.3 RGQ Segment Organization**

56 What follows is a description of the RGQ organizational structure, including a listing of RGQ
57 Segments.

Suppliers: Persons engaged in competitive retail sales of natural gas and/or capacity,
including marketers , aggregators, producers, asset managers and pipelines.

Distributors: Persons engaged in the local distribution of natural gas.

End Users: Persons that consume natural gas or represent consumers of natural gas.

Service Providers: Persons that provide services to the participants in the retail natural gas
industry, including equipment manufacturers, equipment and service vendors,
software providers, energy consultants, and other companies not otherwise
declared in any other Segment.

58 Each RGQ Segment shall have the flexibility to determine its own Segment rules and procedures
59 and to elect or select its own representatives to the NAESB Board and to the RGQ EC, as long as those
60 rules and procedures conform with NAESB Bylaws and the RGQ procedures in this Exhibit.

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5 – RGQ MEMBERS

67 **Section 5.1 RGQ Voting Members**

68 The definition of Membership applies to all RGQ Segments. RGQ Members are persons with

69 legitimate business interest¹ in the retail natural gas market and which meet the definitions of one of the
70 four RGQ Segments. Upon applying for Voting Membership (as described in NAESB Bylaws Sections
71 1.1 and 5.1), each prospective RGQ Member shall declare the RGQ Segment with which they are to be
72 identified. Voting Membership in the RGQ of NAESB shall be open to all persons that meet all of the
73 following requirements:

- 74 1. The person has a legitimate business interest in the retail natural gas market (or is a
75 representative or Agent of such person), as determined by a simple majority of the Quadrant
76 Membership, if challenged;
- 77 2. The person meets the description of one of the co-equal industry Segments identified by the
78 RGQ of NAESB, as determined by a simple majority of the Segment Membership, if
79 challenged;
- 80 3. The person has designated a representative who has the authority and willingness to represent
81 its interests; and
- 82 4. The person has declared its affiliation to one, and only one, of the RGQ Segments.

83 The RGQ Member may be a trade association or an advocacy group representing a group of
84 prospective members, provided that the trade association or advocacy group meets the requirements
85 defined by the Segment Procedures of its declared Segment. Only RGQ EC Members shall have the right
86 to vote to adopt model business practices or standards affecting only the RGQ.

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6 – RESERVED

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¹ “Legitimate business interest” in this section specifically includes the interests of statutorily appointed consumer

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7 – BOARD

Section 7.1 Board Representation

The RGQ shall have representatives on the NAESB Board of Directors, with each RGQ Segment electing or selecting an equal number of these representatives, pursuant to the procedures specified by the respective RGQ Segment in this Exhibit.

Section 7.2 Qualifications of RGQ Directors

A. Eligibility

To be eligible to serve as representative on the NAESB Board of Directors:

1. The person must be a Member of the RGQ;
2. The person should have broad understanding of the natural gas industry and have sufficient authority to make decisions on behalf of the organization represented; for example, a representative of a corporate entity should ideally be an executive of that corporation;
3. The person must have a working knowledge of the NAESB process;
4. The person must be willing to commit the time and resources necessary to fulfill their obligations as a NAESB Director and to meet the minimum threshold of participation and attendance established in the NAESB Bylaws [Section 9.7 (f)]; and
5. The person should disclose their interest, or their employer's interest, in the natural gas industry and the relationship with other entities with which the employer may be affiliated.

B. One Member, One Seat Per Quadrant

Once elected to serve as Director on the NAESB Board, the individual may hold not more than one directorship, representing only one Segment within the RGQ.

Section 7.3 Number and Election of Directors

A. Number of Directors

advocates.

113 The RGQ of NAESB shall be represented on the NAESB Board of Directors by twenty-four (24)
114 persons who shall be elected, from time to time, as required by Article 7 of the NAESB Bylaws and in this
115 Exhibit to those Bylaws. The NAESB office shall coordinate the election process for the RGQ
116 representatives to the NAESB Board during the second week of November of each year.

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117 **B. Election of Directors**

118 The elections of RGQ representatives to the NAESB Board shall be subject to the following
119 provisions:

- 120 1. Any RGQ Member who is current in the payment of its dues is eligible to vote; and
- 121 2. The candidates receiving the greatest numbers of votes shall be elected.

122 **Section 7.4 Term of Office**

123 The initial RGQ Directors on the NAESB Board shall be divided into three groups within each
124 RGQ Segment whose terms shall expire as follows: Group A, consisting of two Board seats, on December
125 31, 2004; group B, consisting of three Board seats, on December 31, 2003; and group C, consisting of one
126 Board seat, on December 31, 2002. Upon the completion of those initial terms, all succeeding Directors
127 shall thereafter be elected for a two-year term, consistent with the NAESB Bylaws.

128 **Section 7.5 Reserved**

129 **Section 7.6 Removal of Directors**

130 Each RGQ Segment shall have the authority to remove a Director for cause. Prior to voting on
131 such resolution to remove a Director for cause, the RGQ Segment shall give the Director at least 30-day
132 notice of the proposed action and an opportunity to respond. A simple majority of the RGQ Segment
133 Membership shall be required to remove a Director.

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135 **8 – RESERVED**

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137 **9 – RESERVED**

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10 - EXECUTIVE COMMITTEE

Section 10.1 EC Representation

The RGQ shall have an Executive Committee (EC), which shall also participate in the larger NAESB EC body, consisting of representatives from each RGQ Segment, with each RGQ Segment electing an equal number of these RGQ EC Members, pursuant to procedures specified by the respective Segment in this Exhibit. Only Voting Members of the RGQ have the right to ratify model business practices and standards that were adopted by the RGQ EC and that affect only the RGQ.

Section 10.2 Qualifications of RGQ EC Members

A. Eligibility

To be eligible to serve as a RGQ EC Member:

1. The person should have broad understanding and practical experience within the natural gas industry;
2. The person should typically be a manager or be at a level of responsibility within the organization represented to act on its behalf;
3. The person should have a working knowledge of the NAESB process;
4. The person must be willing to commit the time and resources necessary to fulfill their obligations as a RGQ EC Member and to meet the minimum threshold of participation and attendance established in the NAESB Bylaws [Section 9.7 (f)]; and
5. The person should disclose their interest, or their employer's interest, in the natural gas industry and the relationship with other entities with which the employer may be affiliated.

B. One Member, One Seat Per Quadrant

Once elected to serve as RGQ EC Member, the individual may hold not more than one EC seat, representing only one Segment within the RGQ.

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163 **Section 10.3 Number and Election of RGQ EC Members**

164 **A. Number of EC Members**

165 The RGQ of NAESB shall be represented on the RGQ EC by twenty-four (24) persons who shall
166 be elected, from time to time, as required by Article 10 of the NAESB Bylaws and in this Exhibit to those
167 Bylaws.

168 **B. Election of EC Members**

169 The elections of RGQ EC Members shall be subject to the following provisions:

- 170 1. Any RGQ Member who is current in the payment of its dues is eligible to vote; and
171 2. The candidates receiving the greatest numbers of votes shall be elected.

172 **C. Timing of Elections**

173 The NAESB office shall coordinate the election process for RGQ EC Members during the second
174 week of November of each year.

175 **Section 10.4 Term of Office**

176 The initial RGQ EC Members shall be divided into three groups within each RGQ Segment whose
177 terms shall expire as follows: Group A, consisting of two EC seats, on December 31, 2004; Group B,
178 consisting of three EC seats, on December 31, 2003; and Group C, consisting of one EC seat, on
179 December 31, 2002. Upon the completion of those initial terms, all succeeding EC Members shall
180 thereafter be elected for a two-year term, consistent with the NAESB Bylaws.

181 **Section 10.5 Removal of RGQ EC Members**

182 Each RGQ Segment shall have the authority to remove an RGQ EC Member for cause. Prior to
183 voting on such resolution to remove an RGQ EC Member for cause, the RGQ Segment shall give the
184 RGQ EC Member at least 30-day notice of the proposed action and the opportunity to respond. A simple
185 majority of the RGQ Segment Membership shall be required to remove an RGQ EC Member.

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186 **Section 10.6 RGQ EC Subcommittees**

187 While there may be Subcommittees and Task Forces established by the NAESB EC, to be
188 comprised of NAESB Members and other interested parties, the RGQ shall set up its own Subcommittees
189 and Task Forces to deal with RGQ-specific issues. Each RGQ EC Subcommittee shall report to the RGQ
190 EC and each shall:

- 191 1. Elect a chair who shall be an RGQ EC Member and who shall serve until he or she resigns or
192 is removed by the RGQ Subcommittee’s membership;
- 193 2. Carry out its work in accordance with procedures adopted by the NAESB EC for EC
194 Subcommittees;
- 195 3. Provide notice of meetings and agendas;
- 196 4. Practice balanced voting and record voting results; and
- 197 5. Keep regular minutes of its proceedings and provide copies of these minutes promptly to the
198 NAESB office.

199 Any task force established by RGQ EC Subcommittees shall be open to all NAESB Members and
200 other interested parties. At NAESB joint Subcommittee or joint Task Force meetings, the same individual
201 may represent different Segments from different NAESB Quadrants, as long as that individual declares
202 prior to the joint meeting the NAESB Quadrant and Segment for which he or she is casting a vote. At
203 RGQ Subcommittee or Task Force meetings, the same individual may represent different RGQ Segments,
204 as long as that individual declares prior to the meeting the RGQ Segment for which he or she is casting a
205 vote.

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11 – RESERVED

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209 **12 – RESERVED**

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211 **13 – RESERVED**

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213 **14 – RESERVED**

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215 **15 – RESERVED**

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217 **16 – RESERVED**

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219 **17 – RESERVED**

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221 **18 - AMENDMENTS**

222 **Section 18.1 Amendments**

223 In order for RGQ Procedures to be amended, upon petition of at least five (5) RGQ Members, the
224 Vice Chair of the EC for the RGQ shall announce an RGQ meeting. Such announcement shall provide for
225 at least a 30-day notice. In order to transact business at the RGQ meeting, there shall be a quorum
226 consisting of at least 1/3 of the RGQ Membership. Following such meeting, the proposed resolution
227 adopted at the meeting shall be sent out for comment, and the comments shall be distributed to all RGQ
228 Members in advance of a notational vote. Any RGQ Member not choosing to vote shall be considered to
229 have voted in favor of the proposed change. In order for a proposed change to take effect, it must be

230 approved by at least 2/3 of RGQ Members and 40% of each RGQ Segment's Membership.

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19 – TRANSITION PROCEDURES

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During the initial startup of the RGQ, the Quadrant and Segments may operate with vacant Board and EC seats in a transitional period in accordance with the following provisions. This transitional voting period will be sunset on June 30, 2003, unless the RGQ EC decides to extend the period prior to its expiration. In the event one or more Segments does not populate the maximum number of NAESB Board seats or RGQ EC seats, the number of seats per Segment will be reduced from six to five on January 1, 2003, unless the RGQ EC decides otherwise during its December 2002 meeting.

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Section 19.1 Initial Election of RGQ Directors

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The founding membership of the RGQ will elect no less than three (3) Directors of their choosing per Segment by means that are consistent with NAESB Bylaws and the requirements of Section 7 of these Procedures. Selection of candidates and their election will be by procedures agreed to by consensus or voting methods adopted by the founding group. Such elected representatives will be presented to the NAESB Board for acceptance as Directors of the RGQ, and acceptance by the Board will place all the requirements and restrictions of the Bylaws, including these Procedures, upon those individuals. Subsequent elections to fill vacant seats, as necessary, will be held each month until all seats are filled.

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Section 19.2 Initial Election of RGQ Executive Committee

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The founding membership of the RGQ will elect no less than three (3) EC representatives of their choosing per Segment by means that are consistent with NAESB Bylaws and the requirements of Section 10 of these Procedures. Selection of candidates and their election will be by procedures agreed to by consensus or voting methods adopted by the founding group. Such elected representatives will be presented to the NAESB Board for acceptance as representatives of the RGQ, and acceptance by the

255 Board will place all the requirements and restrictions of these Procedures upon those individuals.
256 Subsequent elections to fill vacant seats, as necessary, will be held each month until all seats are filled.

257 **Section 19.3 Balanced Voting During the Transition Period**

258 **A. Transitional Voting Multiplier**

259 Recognizing that the RGQ Segments might fill their allotted Board and EC seats at varying rates, a
260 Transitional Voting Multiplier mechanism will be used to ensure balanced voting between Segments until
261 all Board and EC seats are filled.

262 1. The Transitional Voting Multiplier shall be calculated for each RGQ Segment by dividing the
263 number of populated seats in the largest REQ Segment by the greater of the number of seats
264 populated in each of the other RGQ Segments.

265 The following example is used to illustrate this: A given RGQ Segment populates three seats,
266 while the largest RGQ Segment in this case populates six. To determine the Transitional
267 Voting Multiplier for the smaller RGQ Segment in this example, the number of seats in the
268 largest RGQ Segment (which in this case is 6) would be divided by the number of seats
269 populated in the smaller Segment (which is 3 in this case) to arrive at 2.00 as the Transitional
270 Voting Multiplier for the smaller REG Segment in this case.

271 2. The Transitional Voting Multiplier for each Segment will be recalculated as each additional
272 vacant seat is filled by the Quadrant on the Board or the EC.

273 3. Once each of a Segment's seats on the Board or the EC has been populated at least once, the
274 Transitional Voting Multiplier will no longer be needed or used for either the Board or EC
275 (whichever applies). Subsequent vacancies on the Board or the EC will not re-institute use of
276 the Transitional Voting Multiplier mechanism.

277 **B. Application**

278 When non-procedural votes are tallied at NAESB Board or EC meetings, each of the voters
279 present will have their votes weighted by the Transitional Voting Multiplier applicable to that voter’s RGQ
280 Segment. Where applicable, NAESB balanced voting rules will be applied after votes have been
281 weighted. Thus in the example given in Section 19.3(A), if all three representatives from the smaller RGQ
282 Segment vote, the tally of their votes would be 6.

283 **C. Limitation on Transitional Voting Multiplier**

284 To the extent that the number of individuals identifying with a RGQ Segment at a sub-committee
285 or task force meeting is less than or equal to the number of RGQ EC seats populated by the Segment, the
286 Transitional Voting Multiplier may be used to weight votes prior to the application of balanced voting rules.

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BYLAWS

Of

NORTH AMERICAN ENERGY STANDARDS BOARD, INC. (NAESB)

A Delaware Non-Stock, Non-Profit Corporation

ARTICLE 1 - DEFINITIONS

Section 1.1 Definitions

The following terms used in these Bylaws shall have the meanings set forth below.

- A. "Act" means the Delaware General Corporation Law, as amended.
- B. "Agent" means an individual, partnership, firm, corporation or other entity representing the interests of a member of NAESB, but who, itself, is not necessarily a member of NAESB.
- C. "Balanced Voting" means that, in the context of EC Subcommittees and task forces, with respect to Standards/Model Business Practices development, voting is governed by rules and procedures that provide for balance of interests among industry Segments and Quadrants participating in NAESB so as to avoid having any one interest exert undue influence over any decision.
- D. "Board" means the Board of Directors of NAESB.
- E. "Certificate" means the Certificate of Incorporation, as amended from time to time, of the NAESB.
- F. "Director" means an individual serving on the Board.

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- 24 G. "EC" means the Executive Committee of NAESB, Inc. (in whole, as a Quadrant
25 EC, or any combination of the Quadrant EC(s)).
- 26 H. "EC Subcommittee" means a subcommittee established by the EC pursuant to
27 Section 10.5 of these Bylaws.
- 28 I. "Exhibit" means an attachment to these Bylaws.
- 29 J. "Majority" means a simple majority of each of the applicable Quadrants for the
30 purposes of voting.
- 31 K. "Members" means individuals and entities that satisfy the requirements for
32 membership set forth in Article 5 of the Bylaws, and includes Voting Members
33 and Non-Voting Members.
- 34 L. "Model Business Practice" means a protocol or procedure for the conduct of
35 specified acts or transactions. The term "Model Business Practice" does not
36 imply enforceability by NAESB.
- 37 M. "NAESB" means the North American Energy Standards Board, Inc.
- 38 N. "Operating Procedures" means the policies and rules that govern the behavior and
39 operation of committees, subcommittees and task forces of NAESB, as
40 established and maintained by the Parliamentary Committee of the Board, (as
41 established in Section 7.8(b)). They apply equally to all Quadrants and Segments.
- 42 O. "Quadrant" means any one of the industry sectors that make up NAESB, whose
43 name has been assigned by the Board, for example, gas wholesale, electric
44 wholesale, gas retail, and electric retail.
- 45 P. "Reconsideration" means a review of a proposed Standard or proposed Model
46 Business Practice subsequent to adoption by the EC and prior to ratification, as
47 described in Section 10.3(h) of these Bylaws.
- 48 Q. "Segment" means one of the co-equal member groupings of a given Quadrant, as
49 defined by that Quadrant and approved by the Board as an Exhibit to these
50 Bylaws.

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- 51 R. "Standard" means a protocol or procedure for the conduct of specified acts or
52 transactions. The term "Standard" does not imply enforceability by NAESB.
- 53 S. "Triage Process" refers to the actions taken from the time a request for a proposed
54 Standard or a proposed Model Business Practice is received by the NAESB
55 office, through consideration by the Triage Subcommittee, and until such time as
56 the EC assigns the request for consideration.
- 57 T. "Voting Member" means an individual, partnership, firm, corporation or other
58 entity whose NAESB dues are current and who meets the requirements for
59 membership of a given Segment(s) within a Quadrant(s), and who has joined such
60 Quadrant(s) and Segment(s). A Voting Member may only be a member of
61 multiple Quadrants and Segments if it has paid dues in each such Quadrant and
62 Segment.

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65 **ARTICLE 2 - PURPOSES, SCOPE, ACTIVITIES AND POLICIES**

66 **Section 2.1 Purposes, Scope and Activities**

67 The purposes, scope and activities of NAESB are set forth in Article II of the Certificate.

68 **Section 2.2 Policies**

69 (a) As expressed in Article IV, Section 1 of the Certificate, NAESB's policy is to
70 encourage a widely-based membership of diverse stakeholders whose business
71 interests are directly affected by the adoption of Standards and Model Business
72 Practices for their commercial activities. Consistent with this approach, NAESB's
73 policy is that all meetings of NAESB, including those of its Members, Board, EC,
74 Advisory Council (as established in Section 7.9), Board committees, EC
75 Subcommittees and task forces, shall be open to any member of the public and the
76 minutes thereof shall be available to the public, except as provided in Section 9.1
77 of these Bylaws.

78 (b) The principles governing NAESB are:

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79 **Independence** – NAESB should be an independent body. While it may have
80 informal liaisons to trade associations, other standards organizations and
81 government agencies, it should be a separately incorporated, fully independent,
82 organization.

83 **Openness** -- NAESB should conduct its activities in the open. Openness should
84 apply to all aspects of its organizational governance, elections and Standards or
85 Model Business Practices development processes, including work products and
86 related meetings. The meetings, agendas and items set for discussion and/or
87 possible vote should be publicly noticed, and interested parties, regardless of
88 membership should have the opportunity to participate.

89 **Voluntary** -- Participation in NAESB should be voluntary and adherence to its
90 Standards and Model Business Practices should, from NAESB's perspective, also
91 be voluntary. Membership should not be dependent upon whether the company
92 seeking membership implements the Standards and Model Business Practices.
93 NAESB will not maintain any type of enforcement activity.

94 **Balance of Interests** – The voting with respect to governance, Standards, Model
95 Business Practices, and Operating Procedures should provide for balance among
96 industry Segments and Quadrants participating in NAESB so as to avoid any one
97 interest group or group of interests having the ability to exert undue influence
98 over any decision.

99 **Inclusivity** – All interested parties have the opportunity to participate in the
100 activities of the standards organization and to join NAESB. All participants
101 should be identified and associated with a Segment and Quadrant.

102 **Consensus-Based Decisions** -- The voting rules should be constructed so that
103 decisions based upon consensus are encouraged. In addition, with respect to
104 voting upon the Standards or Model Business Practices issued or to be issued by
105 NAESB, energy Quadrants and their Segments should be assured that each energy
106 Quadrant and its Segments can protect its interests by requiring both super-

107 majorities and a minimum per Segment, and that a per Quadrant threshold be
108 achieved for passage of such Standards and Model Business Practices by NAESB.

109 **No Advocacy** – NAESB should be prohibited from taking advocacy positions on
110 its Standards or Model Business Practices as a party to any proceeding before a
111 governmental agency. This is not intended to preclude NAESB’s duly authorized
112 representatives from educating or communicating with any group as to NAESB’s
113 procedures and/or work product(s).

114 **Membership Driven** – NAESB should be membership driven. The paid staff
115 should perform administrative functions to support NAESB's activities. Requests
116 for Standard(s) or Model Business Practices should be proposed by identified
117 persons and not by NAESB or its committees and subcommittees. NAESB’s staff
118 should neither have a vote nor a role with respect to conducting the affairs of
119 NAESB other than to provide ministerial functions.

120 **Develop Practices, Not Policy** – The committees, subcommittees and task forces
121 of NAESB should endeavor not to create policy in their Standards or Model
122 Business Practices development activities absent being requested to do so by the
123 Board.

124 **Incorporate Best Practices** – To the extent reasonable, the Standards and Model
125 Business Practices to be established should reflect standardization and
126 streamlining of activities chosen as best practices from among existing and
127 reasonably anticipated policies and practices.

128 **Broad Applicability** – To the extent reasonable, the Standards and Model
129 Business Practices to be established should be structured such that they can be
130 applicable to both the electric and natural gas industries. The two industries
131 should work together to develop Standards and Model Business Practices when
132 joint Standards and Model Business Practices are appropriate. However, where
133 operating requirements dictate the need for different approaches, discrete
134 Standards and Model Business Practices will be established separately by
135 Quadrant(s).

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136 **ANSI Accreditation** – NAESB will actively seek to transfer to itself the current
137 Gas Industry Standards Board accreditation as an American National Standards
138 Institute Standards Development Organization.

139 (c) It is the policy of NAESB to comply to the fullest extent possible with both the
140 letter and spirit of all applicable federal and state laws and regulations, including
141 the antitrust laws. The purpose of the antitrust laws is to preserve and promote
142 competition. Any conduct that violates Federal or State antitrust laws is
143 detrimental to the best interests of NAESB and its Members, and is, therefore,
144 contrary to NAESB policy. No officer, employee or member of NAESB is
145 authorized by NAESB to act contrary to this policy.

146 **Section 2.3 Quadrants and Segments**

147 The procedures of each Quadrant and Segment, respectively, shall conform to the
148 policies of NAESB as stated in the Certificate and these Bylaws. The Board shall have authority
149 to enforce these NAESB policies with regard to the procedures of the Quadrants and Segments.

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

156 A fully populated segment is one which has eighty percent (80%) of the seats filled on
157 the Board (for a vote at the Board) or one hundred percent (100%) for the EC (for a vote at the
158 EC), and only a fully populated segment may exercise the affirmative voting rights provided in
159 Article V of the Certificate, for actions taken by the Board or the EC, as the case may be.

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ARTICLE 3 - OFFICES

Section 3.1 Offices

The registered office of NAESB shall be located in Delaware. NAESB may have any number of other offices at such places as the Board may determine.

ARTICLE 4 - SEAL

Section 4.1 Seal

NAESB may use a Corporate Seal. The Corporate Seal shall bear the name of NAESB, the year of its incorporation and the words "Corporate Seal, Delaware."

ARTICLE 5 - MEMBERS

Section 5.1 Voting Members

- (a) The general requirements for Voting Membership are set forth in Article IV, Section 1 and 2 of the Certificate. Individuals, partnerships, firms or corporations shall join as Members through application for Voting Membership in one or more Quadrants and Segments. The membership requirements for each Quadrant and Segment are set forth in Exhibits 1 through 4.
 - (i) Each Voting Member shall be entitled to one (1) vote in person or by proxy, and shall designate in writing the individual authorized to cast that vote.
 - (ii) Each Voting Member may vote by proxy. Every proxy shall be executed in writing by the Voting Member or by such Voting Member's duly authorized attorney in fact and filed with the Secretary of NAESB. A proxy shall be revocable at will, notwithstanding any other agreement or any provision in the proxy to the contrary. The revocation of a proxy shall not be effective until notice thereof has been given to the Secretary of

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187 NAESB. A proxy shall not be revoked by the death or incapacity of the
188 maker unless, before the vote is counted or the authority is exercised,
189 written notice of such death or incapacity is given to the Secretary of
190 NAESB. No proxy shall be valid after three (3) years from the date of its
191 execution unless otherwise provided in the proxy.

192 (iii) As described in Article IV, Section2 of the Certificate, each Voting
193 Member is required, as a condition of membership, to execute a revocable
194 appointment, in a proxy form approved by the Board, authorizing a
195 designated proxy to vote in favor of any of the proposals described in
196 Article V, Section3 of the Certificate; provided, however, that any Voting
197 Member shall have the right to cast its vote, in lieu of such revocable
198 proxy, either in favor of or in opposition to any such proposal. This proxy
199 shall not expire until revoked by the Voting Member.

200 (iv) A trade association may join as a non-voting member. A trade association
201 may become a Voting Member only if there are no other Voting Members
202 of NAESB that can represent the interests of the trade association's
203 membership, or if the Quadrant determines that the trade association's
204 membership is otherwise under-represented by Voting Members. A trade
205 association shall not be eligible to hold a seat on either the Board or the
206 EC, except as an Agent of an eligible Voting Member.

207 (b) The Board may, by resolution, determine (a) the amount of the membership fee
208 described in Article VII, Section 1 of the Certificate to be assessed to each Voting
209 Member, and (b) the time and method of payment. Delinquency in payment of
210 membership fees has the effect on voting rights specified in Article IV, Section 2
211 of the Certificate.

212 (c) Unless otherwise restricted by the Certificate of Incorporation or these Bylaws,
213 any action required or permitted to be taken by the members at any annual or
214 special meeting may be taken without a meeting, without prior notice and without
215 a vote, if a consent or consents in writing, setting forth the action so taken, shall
216 be signed by the members having not less than the minimum number of votes that

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November 21, 2008

217 would be necessary to authorize or take such action at a meeting at which all
218 members having a right to vote thereon were present and voted. Such written
219 consents shall be delivered to NAESB by delivery to its registered office in the
220 State of Delaware, its principal place of business, or an officer or agent of
221 NAESB having custody of the book in which proceedings of meetings of
222 members are recorded. Delivery made to NAESB's registered office shall be by
223 hand or by certified or registered mail, return receipt requested. Every written
224 consent shall bear the date of signature of each member who signs the consent,
225 and no written consent shall be effective to take the corporate action referred to
226 therein unless, within sixty days of the earliest dated consent delivered to NAESB
227 in the manner required by this Section 5.1(f), written consents signed by a
228 sufficient number of members to take action are delivered to NAESB by delivery
229 to its registered office in the State of Delaware, its principal place of business, or
230 an officer or agent of the Corporation having custody of the book in which
231 proceedings of meetings of members are recorded. Delivery made to NAESB's
232 registered office shall be by hand or by certified or registered mail, return receipt
233 requested. Prompt notice of the taking of the corporate action without a meeting
234 by less than unanimous written consent shall be given to those members who have
235 not consented in writing. In the event that the action which is consented to is
236 such as would have required the filing of a certificate by law, if such action had
237 been voted on by members at a meeting thereof, the certificate filed shall state, in
238 lieu of any statement required by law concerning any vote of members, that
239 written consent has been given in accordance with the Delaware General
240 Corporation Law, and that written notice has been given.

241 **Section 5.2 Non-Voting Members**

242 As provided in Article IV, Section 3 of the Certificate, Non-Voting Members may
243 include, but not be limited to, federal, state and local agencies; non-profit research organizations
244 and similar entities.

245 **Section 5.3 Nontransferable**

246 Membership in NAESB is not transferable to another corporation or entity, although
247 member organizations may transfer representation from one individual to another upon written
248 notice to the Secretary. Such transfer of representation shall not extend to transfer of Board or
249 EC seats.

250 **Section 5.4 Resignation**

251 Any Member may resign from membership by written notice to the Secretary, whereupon
252 that Member's NAESB voting rights and member benefits shall cease.

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255 **ARTICLE 6 - MEETINGS OF MEMBERS**

256 **Section 6.1 Place of Meetings**

257 Meetings of the Members shall be held at such place as may be fixed by the Board. If no
258 place is fixed by the Board, meetings of the Members shall be held at the registered office of
259 NAESB.

260 **Section 6.2 Annual Meeting**

261 Unless the Board provides by resolution for a different time, the Annual Meeting of the
262 Members shall be held in September, October, November or December of each year on the date
263 specified by the Board in the notice of annual meeting.

264 **Section 6.3 Special Meetings of Members**

265 Special meetings of the Members may be called at any time by the Board Chair, by a
266 Majority of the Board or by a Majority of Voting Members. Upon written request of any person
267 entitled to call a special meeting, the Secretary shall (a) fix the date and time of the meeting,
268 which shall be held not less than ten (10) days nor more than sixty (60) days after receipt of the
269 request, and (b) give notice thereof in accordance with Article 11. If the Secretary neglects or
270 refuses to fix the meeting date or give notice, the person or persons calling the meeting may do
271 so.

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272 **Section 6.4 Determination of Members of Record**

273 The Board may fix a time, not more than sixty (60) days prior to the date of any meeting
274 of the Members or any adjournment thereof, as a record date for the determination of the
275 Members entitled to notice of, or to vote at, such meeting. The Board may similarly fix a record
276 date for the determination of the Members of record for any other purpose. When a
277 determination of the Members of record has been made for purposes of a meeting, the
278 determination shall apply to any adjournment thereof unless the Board fixes a new record date
279 for the adjourned meeting.

280 **Section 6.5 Notice of Meetings of Members**

281 Notice of meetings of Members and meetings of Quadrants and Segments to elect or
282 remove Directors or EC Members, or to amend their Exhibits, shall be given in the manner
283 described in Article 11 of the Bylaws. When a meeting of the Members is adjourned, it shall not
284 be necessary to give any notice of the adjourned meeting or of the business to be transacted at an
285 adjourned meeting, other than by announcement at the meeting at which such adjournment is
286 taken, unless the Board fixes a new record date for the adjourned meeting or the Act requires
287 notice of the business to be transacted and such notice has not previously been given.

288 **Section 6.6 Quorum**

289 The quorums for meetings of Voting Members shall be as described in Article V, Section
290 2 of the Certificate. The quorums may be determined by counting attendance in person or by
291 proxy. The Voting Members present at a duly organized meeting can continue to do business
292 until adjournment, notwithstanding the withdrawal of enough Members to leave less than a
293 quorum. If a meeting cannot be organized because a quorum has not attended, those present
294 may, except as otherwise provided in the Act, adjourn the meeting to such time and place as they
295 may determine.

296 **Section 6.7 Adjournment**

297 Adjournments of any meeting of the Members may be taken.

298 **Section 6.8 Organization**

299 At every meeting of the Members, the Board Chair, or in his or her absence, the Board
300 Vice Chair, or in the absence of the Board Chair and the Board Vice Chair, the Board Second
301 Vice Chair or the Board Third Vice Chair, etc., respectively, together representing each of the
302 Quadrants within the Board, or a chair chosen by the Members, shall act as chair. The Secretary,
303 or in his or her absence, a person appointed by the chair, shall act as secretary.

304 **Section 6.9 Voting on Particular Issues**

305 Article V, Sections 3 and 4 of the Certificate describe the voting procedures and the
306 number of votes required for adoption and approval for particular issues with respect to NAESB.

307 **ARTICLE 7 - BOARD**

308 **Section 7.1 Board**

309 The business and affairs of NAESB shall be managed by the Board. The powers of
310 NAESB shall be exercised by, or under the authority of, the Board except as otherwise provided
311 by statute, the Certificate or these Bylaws. Specific powers and duties are delegated to the EC
312 by Article III, Section 5 of the Certificate. The Board may delegate such other powers to the EC,
313 as it deems appropriate if such delegation is consistent with the Certificate.

314 **Section 7.2 Qualifications of Directors**

315 Each Director shall be a natural person at least eighteen (18) years of age who need not
316 be a resident of Delaware and who shall be a Voting Member, or a partner in, or an officer,
317 employee or agent of, a Voting Member.

318 **Section 7.3 Number and Election of Directors**

319 The Board shall consist of representatives of the Quadrants, each Quadrant determining
320 the number of Directors who shall occupy seats on the Board, except that every Segment of a
321 Quadrant shall be represented by at least one Director. Regardless of the number of Directors
322 elected from each Quadrant, no Quadrant shall be entitled to cast a vote greater than the
323 percentage that its Quadrant represents in relation to the total number of Quadrants represented
324 on the Board at a given time. Each Segment within a Quadrant shall be represented by an equal
325 number of Directors, to be determined by that Quadrant. The procedures for electing the

326 Directors shall be as specified in each Quadrant's Exhibit. Each Quadrant shall communicate
327 the timing of its election of Directors.

328 **Section 7.4 Term of Office**

329 (a) The term of office of a Director shall be for a period set by the Quadrant, not less
330 than 1 year, not to exceed three years. Quadrants may elect Directors for varying
331 terms. Directors may be reelected to subsequent terms.

332 (b) Each Director shall hold office during his or her term until the earliest of: (i) the
333 expiration of the term for which he or she was elected and until his or her
334 successor has been elected and qualified, (ii) the Director's resignation of his or
335 her Voting Membership (if the Director is the Voting Member as an individual) or
336 the lapse of the Director's Voting Membership for delinquency in membership fee
337 payment, (iii) the resignation or lapse (through delinquency in membership fee
338 payment) of Voting Membership of the entity of which the Director is a partner,
339 officer, employee or agent, or (iv) the Director's death, resignation, or removal.

340 **Section 7.5 Vacancies**

341 Vacancies in the Board resulting from the circumstances described in Subsections
342 7.4(b)(ii), (iii) or (iv) above shall be filled by the Quadrant and Segment in which the vacancy
343 occurs, in accordance with the procedures specified in that Quadrant's Exhibit.

344 **Section 7.6 Removal of Directors**

345 Procedures for removal of Directors representing a Quadrant and Segment are contained
346 in the pertinent Exhibit.

347 **Section 7.7 Resignations**

348 Any Director may resign at any time by giving written notice to the Secretary. The
349 resignation shall be effective upon receipt by NAESB or at such subsequent time as may be
350 specified in the notice of resignation.

351 **Section 7.8 Board Committees**

352 (a) The Board, by Majority vote of the entire Board, may establish, by means of
353 resolutions to be attached hereto, committees of the Directors. The resolutions shall

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354 describe the powers and authorities of each committee, require each committee to
355 adopt procedures, and provide opportunity for Directors from each Quadrant and
356 Segment to participate in the committee's work.

357 (b) There shall be a Managing Committee, consisting of the chair, the vice chairs of each
358 Quadrant, the past chairs (if a member of the Board), the Executive Director, and the
359 General Counsel. It shall have the authority of the Board between Board meetings,
360 subject to the limitations placed upon it by the Board; however it shall have no
361 authority to amend the Certificate or the Bylaws. The Executive Director and the
362 General Counsel shall be non-voting members of the committee.

363 (c) There shall be a Parliamentary Committee, consisting of members of the Board
364 with at least two Directors from each Quadrant. The function of the
365 Parliamentary Committee is to address issues related to corporate governance,
366 including, but not limited to, the Certificate of Incorporation, the Bylaws and the
367 Operating Procedures. Members of the Parliamentary Committee shall be
368 appointed by the Chair of the Board, who shall serve as the chair of this
369 committee.

370 **Section 7.9 Advisory Council**

371 The Board shall establish a standing Advisory Council, to be known as the "NAESB
372 Advisory Council." The Advisory Council shall be composed of not more than twenty-five (25)
373 persons who shall be knowledgeable about the issues involved in carrying out the purposes,
374 scope and activities of NAESB. The membership of the Advisory Council should be rotated
375 from time to time, and should reflect participation by federal, state and local agencies; public
376 interest groups; non-profit research organizations; and similar organizations. The Advisory
377 Council shall develop its own procedures consistent with the general guidance of the Board and
378 not inconsistent with the Certificate. The Advisory Council shall advise both the Board and EC.

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380

ARTICLE 8 - OFFICERS

381 **Section 8.1 Number**

382 The officers of NAESB shall include a Chair, and up to three Vice Chairs (each
383 representing a different Quadrant within the Board), a Secretary, a Treasurer, an Assistant
384 Treasurer, and an Executive Director. The officers may include one or more Assistant
385 Secretaries, other Assistant Treasurers, and such other officers as the Board may determine by
386 resolution. Any number of offices may be held by the same person.

387 **Section 8.2 Qualifications of Officers of NAESB**

388 The officers shall be natural persons at least eighteen (18) years of age who are Directors,
389 except that the Executive Director, Secretary, Assistant Secretaries and Assistant Treasurers
390 need not be Directors.

391 **Section 8.3 Election and Term of Office**

392 The officers of NAESB shall be elected by the Board at any meeting of the Board. Each
393 officer except for the Executive Director, Assistant Secretaries and Assistant Treasurers shall
394 serve for a term of one (1) year and until his or her successor begins his or her term, or until his
395 or her earlier death, resignation, or removal, or lapse of Director status pursuant to Subsections
396 7.4(b)(ii),(iii) or (iv) or Section 7.6. On expiration of the terms of the officers of NAESB, the
397 Vice Chair shall become the Chair, the Second Vice Chair shall become the Vice Chair, the
398 Third Vice Chair shall become the Second Vice Chair, and the Board shall elect a new Third
399 Vice Chair. The new Third Vice Chair shall be elected in the following order of rotation, which
400 shall be repeated indefinitely: Gas Wholesale, Electric Retail, Electric Wholesale, and Gas
401 Retail. If no Director representing a Quadrant is willing to serve as Third Vice Chair when the
402 rotation turns to that Quadrant, the Board shall elect a Third Vice Chair from among its
403 remaining Directors, and the rotation shall continue thereafter as though a Director representing
404 the Quadrant had in fact served as Third Vice Chair.

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405 **Section 8.4 Removal of Officers**

406 Any officer may be removed by action of a Majority of the Directors whenever in their
407 judgment the best interests of NAESB will be served. Such removal shall be without prejudice to
408 the contract rights, if any, of any person so removed.

409 **Section 8.5 Resignations**

410 Any officer may resign at any time by giving written notice to the Secretary. The
411 resignation shall be effective upon receipt by the Secretary or at such subsequent time as may be
412 specified in the notice of resignation.

413 **Section 8.6 The Chair**

414 The Chair shall be the chief executive officer of NAESB and shall have general
415 supervision over the business and operations of NAESB, subject to the control of the Board. The
416 Chair shall chair all meetings of the Board and the Members. The Chair shall execute in the
417 name of NAESB, deeds, mortgages, bonds, contracts, and other instruments to the extent
418 authorized by the Board, except in cases where the execution thereof shall be expressly
419 delegated by the Board to some other officer or agent of NAESB. In general, the Chair shall
420 perform all duties incident to the office of Chair and such other duties as may be assigned by the
421 Board.

422 **Section 8.7 The Vice Chairs**

423 There shall be a Vice Chair for each Quadrant. In the absence of other Quadrant
424 procedures, the Vice Chair of each Quadrant shall be elected by a simple majority of its
425 respective Quadrant Board members. In the absence or disability of the Chair or when so
426 directed by the Chair, a Vice Chair (in order of precedence) may perform all the duties of the
427 Chair, and, when so acting, shall have all the powers of, and be subject to all the restrictions
428 upon, the Chair. The Vice Chairs shall perform such other duties as may be assigned by the
429 Board or the Chair.

430 **Section 8.8 The Secretary**

431 (a) Unless the Board directs otherwise, the Executive Director shall be the Secretary
432 of NAESB.

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- 433 (b) The Secretary shall attend all meetings of the Board and of the Members. The
434 Secretary shall record all votes of the Board, EC and the Voting Members and the
435 minutes of the meetings of the Board, EC and of the Members in a book or books
436 belonging to NAESB to be kept for that purpose. The Secretary shall see that
437 required notices of meetings of the Board and of the Members are given and that
438 all records and reports are properly kept and filed by NAESB. The Secretary
439 shall be the custodian of the seal of NAESB and shall see that it is affixed to all
440 documents to be executed on behalf of NAESB under its seal. In general, the
441 Secretary shall perform all duties incident to the office of Secretary and such
442 other duties as may be assigned by the Board or the Chair.
- 443 (c) In the absence or disability of the Secretary or when so directed by the Secretary,
444 any Assistant Secretary may perform all the duties of the Secretary, and, when so
445 acting, shall have all the powers of, and be subject to all the restrictions upon, the
446 Secretary. Each Assistant Secretary shall perform such other duties as may be
447 assigned by the Board, the Chair, or the Secretary.
- 448 (d) To the extent not provided for by the EC, the Secretary shall appoint persons to
449 take minutes of EC Meetings and EC Subcommittee meetings.

450 **Section 8.9 The Treasurer**

- 451 (a) Unless the Board directs otherwise, the Second Vice Chair shall be the Treasurer.
452 The Executive Director shall be an Assistant Treasurer.
- 453 (b) The Treasurer shall be responsible for corporate funds and securities and shall
454 keep full and accurate accounts of receipts and disbursements in books belonging
455 to NAESB. The Treasurer shall have full authority to receive and give receipts
456 for all money due and payable to NAESB, and to endorse checks, drafts, and
457 warrants in its name and on its behalf and to give full discharge for the same. The
458 Treasurer shall deposit all funds of NAESB, except such as may be required for
459 current use, in such banks or other places of deposit as the Board may designate.
460 In general, the Treasurer shall perform all duties incident to the office of
461 Treasurer and such other duties as may be assigned by the Board or the Chair.

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462 (c) In the absence or disability of the Treasurer or when so directed by the Treasurer,
463 any Assistant Treasurer may perform all the duties of the Treasurer, and, when so
464 acting, shall have all the powers of, and be subject to all the restrictions upon, the
465 Treasurer. Each Assistant Treasurer shall perform such other duties as may be
466 assigned by the Board, the Chair, or the Treasurer.

467 **Section 8.10 The Executive Director**

468 The Executive Director shall be the chief operating officer of NAESB, and be subject to
469 the control of the Board. The Executive Director shall have all powers and duties necessary for
470 managing the day-to-day operating and business affairs of NAESB and directing all activities of
471 NAESB as prescribed by the Board. Unless the Board directs otherwise, the Executive Director
472 shall be the Secretary of NAESB. The compensation of the Executive Director shall be fixed by
473 the Board.

474

475 **ARTICLE 9 - MEETINGS OF DIRECTORS**

476 **Section 9.1 Place of Meetings**

477 The Board may hold its meetings at such places as the Board may appoint or as may be
478 designated in the notice of the meeting. Meetings or portions of meetings may be closed to the
479 public only (and the pertinent minutes withheld from the public) for discussion of paid NAESB
480 employees or their compensation and for litigation matters involving NAESB as a corporate
481 entity.

482 **Section 9.2 Organization**

483 Every meeting of the Board shall be presided over by the Chair, or in the absence of the
484 Chair, a Vice Chair in order of precedence, or in the absence of the Chair and the Vice Chairs, a
485 chair chosen by a majority of the Directors present. The Secretary, or in his or her absence, a
486 person appointed by the chair, shall act as secretary.

487 **Section 9.3 Annual Meeting**

488 Unless the Board provides by resolution for a different time, the annual meeting of the
489 Board shall take place immediately after the annual meeting of the Members. The newly

490 constituted Board shall meet without prior notice at the place where the meeting of the Members
491 was held, or at any other place and time designated in a notice given as provided in Article 11,
492 for the purposes of organization, election of officers, and the transaction of other business.

493 **Section 9.4 Regular Meetings**

494 The Board may hold its regular meetings at such place and time as shall be designated by
495 resolution of the Board. If the date fixed for any regular meeting is a legal holiday under the
496 laws of the state in which the meeting will be held, the meeting shall be held on the next
497 succeeding business day or at such other time as may be determined by resolution of the Board.
498 The Board shall transact such business as may properly be brought before its meetings.

499 **Section 9.5 Special Meetings of the Board**

500 The Chair or at least one-third of the Directors may call special meetings of the Board,
501 which shall be held at such time and place as shall be designated in the call for the meeting. Ten
502 (10) days' notice of any special meeting shall be given to each Director pursuant to Article 11 or
503 by telephone. Such notice shall state the time and place of such special meeting and state the
504 matters to be discussed at the special meeting. Action taken at special meetings shall be limited
505 to the matters described in the meeting notice.

506 **Section 9.6 Quorum**

507 The quorum necessary for a meeting of the Board is a majority of the Directors, as
508 described in Article V, Section 1 of the Certificate.

509 **Section 9.7 Participation and Voting in Meetings**

510 (a) One (1) or more Directors may participate in a meeting of the Board or a
511 committee thereof by means of conference telephone or similar communications
512 equipment by means of which all persons participating in the meeting can hear
513 each other.

514 (b) Each Director shall be entitled to one (1) vote.

515 (c) Article V, Sections 1 and 3 of the Certificate describe the voting procedures and
516 the number of votes required for adoption or approval for particular issues with
517 respect to NAESB.

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- 518 (d) No substitutes shall be permitted to vote at Board meetings.
- 519 (e) Notational voting by Directors is proper in the following circumstances and
520 pursuant to the following procedures:
- 521 (i) In lieu of meeting: The Chair may request that any vote or action be taken
522 by the Board without a meeting and without unanimous consent, and such
523 action may be taken if approved by the appropriate voting levels specified
524 in Article V of the Certificate. Notice of the Chair's request shall be given
525 to all Directors in the manner specified in Article II of the Bylaws.
- 526 (ii) During meetings: Notational votes from a Director not in attendance shall
527 be accepted and counted at a Board meeting with respect to any
528 resolutions circulated in writing in advance of a Board meeting; provided,
529 however, that if substantive changes are made in a resolution at the Board
530 meeting such advance notational votes shall not be counted with respect to
531 that resolution, but the procedures specified in (iii) below should be used.
- 532 (iii) Following a meeting: The Board shall indicate whether, and if so for how
533 long, notational votes will be accepted after a meeting relating to
534 particular issues voted on at that meeting.
- 535 (f) While Board Members may participate and vote by means of teleconference or
536 other electronic means, eligibility to continue serving as a Board member is
537 dependent upon in-person attendance at no less than 25% of scheduled Board
538 Meetings and participation in at least 75% of such meetings. Such
539 attendance/participation threshold shall be reviewed at March 31 and September
540 30 of each year for the preceding twelve months.

541

542 **ARTICLE 10 - EXECUTIVE COMMITTEE**543 **Section 10.1 Duties and Responsibilities**

544 The EC shall have the duties and responsibilities described in Article III, Section 5 of the
545 Certificate.

546 **Section 10.2 EC Members**

- 547 (a) The EC shall consist of representatives of the Quadrants, with each Quadrant
548 determining the number of EC Members representing that Quadrant. Regardless
549 of the number of EC members elected from each Quadrant, no Quadrant shall be
550 entitled to cast a vote greater than the percentage that its Quadrant represents in
551 relation to the total number of Quadrants represented on the EC. Each Segment
552 within a Quadrant shall be represented by an equal number of EC Members, to be
553 determined by that Quadrant. The procedures followed for electing the EC
554 members shall be those specified in that Quadrant's Exhibit.
- 555 (b) The term of office of an EC member shall be for a period set by the Quadrant, not
556 less than 1 year, not to exceed three years. Each Quadrant will determine the
557 terms for their EC members. EC member terms may vary between Quadrants.
558 EC members may be reelected to subsequent terms. Each EC Member shall hold
559 office during his or her term until the earliest of: (i) the expiration of the term for
560 which he or she was elected and until his or her successor has been elected and
561 qualified, (ii) the EC Member's resignation of his or her Voting Membership (if
562 the EC Member is the Voting Member as an individual) or the lapse of the EC
563 Member's Voting Membership for delinquency in membership fee payment, (iii)
564 the resignation or lapse (through delinquency in membership fee payment) of
565 Voting Membership of the entity of which the EC Member is a partner, officer,
566 employee or agent, or (iv) the EC Member's death, resignation, or removal.
- 567 (c) Each EC Member shall be a natural person at least eighteen (18) years of age who
568 need not be a resident of Delaware and who shall be a Voting Member, or a
569 partner in, or an officer, employee or agent of, a Voting Member.
- 570 (d) Vacancies in the EC resulting from the circumstances described in Subsections
571 10.2 (b)(ii), (iii), or (iv) above or described in Section 10.2(d) below shall be
572 filled by the Segment in which the vacancy occurs, in accordance with the
573 procedures specified in that Quadrant's Exhibit.

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- 574 (e) Procedures for removal of EC Members representing a Segment are contained in
575 the pertinent Quadrant's Exhibit.
- 576 (f) Any EC Member may resign at any time by giving written notice to NAESB. The
577 resignation shall be effective upon receipt by the Secretary or at such subsequent
578 time as may be specified in the notice of resignation.

579 **Section 10.3 EC Organization**

- 580 (a) The EC shall elect from among its members an EC Chair, and up to three vice-
581 chairs (each representing a different Quadrant within the EC). Each of these
582 officers shall serve for a term of one (1) year and until his or her successor has
583 been elected and qualified, or until his or her earlier death, resignation, or
584 removal. The EC may appoint a secretary.
- 585 (b) Every meeting of the EC shall be presided over by the EC Chair, an EC Vice
586 Chair (in order of precedence) or, in the absence of the EC Chair and EC Vice
587 Chairs, a chair chosen by a Majority of the EC Members present.
- 588 (c) A majority of the EC may remove the EC Chair or an EC Vice Chair from his or
589 her position whenever in its judgment the best interests of the EC or NAESB will
590 be served thereby.
- 591 (d) The EC Chair and EC Vice Chairs may resign at any time by giving written notice
592 to the NAESB Secretary. The resignation shall be effective upon receipt by the
593 NAESB Secretary or at such subsequent time as may be specified in the notice of
594 resignation.
- 595 (e) The EC shall divide itself into Quadrants to consider Standards and Model
596 Business Practices. The number of Quadrants considering a particular Standard
597 or a particular Model Business Practice shall be determined by the EC as a whole,
598 acting upon requests presented to it through the Triage Process.
- 599 (f) By a Majority vote, the EC shall assign responsibility to one or more Quadrants to
600 address each request for a proposed Standard or a proposed Model Business
601 Practice, at the conclusion of the Triage Process. The Quadrant(s) assigned such

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602 responsibility shall process the request and vote on the ultimate recommendation.
603 Only the members of the Quadrant(s) to which the request has been assigned may
604 vote to ratify actions taken to approve a Standard or a Model Business Practice.
605 Any Standard or Model Business Practice adopted by a Quadrant(s) shall apply
606 only to the activities of the energy sector covered by that Quadrant(s). .

607 (g) As part of the Triage Process, the EC may direct that two or more Quadrants
608 jointly consider a request for proposed Standards or proposed Model Business
609 Practices. In such event, the indicated Quadrants of the EC shall jointly act on the
610 recommendation (and in so doing, may appoint joint subcommittees or task forces
611 to assist in such consideration) and, if applicable, the members of the affected
612 Quadrants shall act on ratification of the Standards or Model Business Practices.
613 To the extent that multiple Quadrants, having jointly considered Standards or
614 Model Business Practices, cannot reach agreement on such Standards or Model
615 Business Practices, the EC representatives of any of the participating Quadrants
616 may, by a Majority vote, instruct the subcommittee to provide a status report.
617 After receiving the status report, the EC representatives from any of the
618 participating Quadrants may request the EC to re-triage the request for a proposed
619 Standard or proposed Model Business Practice to allow a Quadrant(s) to proceed
620 independently.

621 (h) Any Quadrant(s) that believes that it is affected by a Standard or Model Business
622 Practice adopted by any other Quadrant(s) of the EC may seek Reconsideration of
623 the assignment of such proposed Standard or Model Business Practice.

624 (i) Within 30 days after the publication of the meeting minutes recording the
625 EC vote to approve a proposed Standard or Model Business Practice, any
626 Quadrant(s) that believes itself to be affected by such action shall so
627 indicate in a resolution adopted by a Majority vote of the EC of such
628 Quadrant(s), which shall be forwarded by the NAESB office to the EC
629 Chair and the entire EC.

630 (ii) Within 30 days of notice to the EC of such affirmative vote, the EC shall
631 enter a Reconsideration action on the agenda for its next meeting. A

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632 Reconsideration action shall pass if a Majority of each Quadrant of the EC
633 that did not vote to adopt the recommended Standard or Model Business
634 Practice now votes in favor of Reconsideration.

635 (iii) In the event the Reconsideration action passes, an affected Quadrant and
636 any other Quadrants that were assigned the request for a proposed
637 Standard or proposed Model Business Practice as a result of the initial
638 Triage Process shall jointly consider such request for a proposed Standard
639 or a proposed Model Business Practice as described in Section 103 (g) of
640 these Bylaws.

641 (iv) If the Reconsideration action fails, the Quadrant(s) that adopted the
642 recommendation for a proposed Standard or a proposed Model Business
643 Practice shall proceed with ratification of such proposals by the members
644 of such Quadrant(s).

645 (i) The ratification of a Standard or Model Business Practice requires a 67%
646 approval of the members of each of the applicable Quadrant(s) returning ballots.

647 (j) Minutes shall be kept of all EC and EC Subcommittee meetings and forwarded to
648 the NAESB Secretary.

649 **Section 10.4 Meetings**

650 (a) The EC as a whole, or the EC for individual Quadrant(s), may hold regular
651 meetings at such place and time as shall be designated by resolution of the EC as
652 a whole or the EC for individual Quadrants, as applicable.

653 (b) Quadrant ECs will make all reasonable efforts to coordinate the times and
654 locations of their meetings such that meetings which occur on concurrent or
655 consecutive days will be in close physical proximity, facilitating attendance of
656 multiple meetings by EC members, individual NAESB members of any Quadrant,
657 or other interested parties.

658 (c) The EC Chair or at least one-third of the EC members may call special meetings
659 of the EC which shall be held at such time and place as shall be designated in the
660 call for the meeting. At least five (5) days' notice of any special meeting shall be

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- 661 given to each EC Member pursuant to Section 11.1 or by telephone. Such notice
662 shall state the time and place of such special meeting and state the matters to be
663 discussed at the special meeting. Action taken at special meetings shall be limited
664 to the matters described in the meeting notice.
- 665 (d) The quorum necessary for EC meetings is a majority, as set forth in Article V of
666 the Certificate.
- 667 (e) Each EC Member shall be entitled to one (1) vote.
- 668 (f) Article V, Section 4 of the Certificate describes the EC voting procedures and
669 number of votes required for adoption or approval for particular issues with
670 respect to NAESB.
- 671 (g) Each EC Member may participate and vote in EC meetings by proxy. Every
672 proxy shall be executed in writing by the EC Member or by his or her duly
673 authorized attorney in fact and filed with the Secretary of NAESB. A proxy shall
674 be revocable at will, notwithstanding any other agreement or any provision in the
675 proxy to the contrary. The revocation of a proxy shall not be effective until notice
676 thereof has been given to the Secretary of NAESB. A proxy shall not be revoked
677 by the death or incapacity of the maker unless, before the vote is counted or the
678 authority is exercised, written notice of such death or incapacity is given to the
679 Secretary of NAESB. Proxies may be limited in scope to the specific matters
680 described in the agenda for the meeting. The voting directions contained in a
681 proxy shall be read by the EC Chair at the beginning of the meeting.
- 682 (h) One (1) or more EC Members may participate in a meeting of the EC or a
683 committee thereof by means of conference telephone or similar communications
684 equipment by means of which all persons participating in the meeting can hear
685 each other.
- 686 (i) No substitutes shall be permitted to vote at EC meetings. However, a Designated
687 Alternate may vote at meetings of the EC in place of an absent EC Member from
688 a given Segment. A Designated Alternate is defined as a person named in a list
689 by the Segment that is received by the EC Secretary at least five (5) days prior to

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690 the pertinent meeting of the EC. Each Segment's list shall be developed, amended
691 and structured in the manner described in that Quadrant's Exhibit. A Designated
692 Alternate has all voting rights of the EC Member in whose place he or she serves,
693 except for those matters on which the EC Member has already voted by proxy
694 prior to the beginning of a meeting.

695 (j) While EC Members may participate and vote by means of teleconference or other
696 electronic means, eligibility to continue serving as an EC member is dependent
697 upon in-person attendance at no less than 25% of scheduled EC Meetings and
698 participation in at least 75% of such meetings. Such attendance/participation
699 threshold shall be reviewed at March 31 and September 30 of each year for the
700 preceding twelve months..

701 (k) Notational voting by EC Members is proper in the following circumstances and
702 pursuant to the following procedures:

703 (i) In lieu of meeting: The EC Chair may request that any vote or action be
704 taken by the EC without a meeting and without unanimous consent, and
705 such action may be taken if approved by the appropriate voting levels
706 specified in Article V of the Certificate. Notice of the EC Chair's request
707 shall be given to all EC Members in the manner specified in Article II of
708 these Bylaws.

709 (ii) During meetings: Notational votes from an EC Member that is not present
710 shall be accepted and counted at an EC meeting with respect to any
711 resolutions circulated in writing in advance of an EC meeting; provided,
712 however, that if substantive changes are made in a resolution at the EC
713 meeting such advance notational votes shall not be counted with respect to
714 that resolution, but the procedures specified in (iii) below should be used.

715 (iii) Following a meeting: The EC shall indicate whether, and if so for how
716 long, notational votes will be accepted after a meeting relating to
717 particular issues voted on at that meeting.

718 **Section 10.5 EC Subcommittees**

- 719 (a) The EC may establish subcommittees to be comprised of Members and other
720 interested parties who have the opportunity to participate. Each EC
721 Subcommittee shall employ Balanced Voting. Each EC Subcommittee shall
722 report to, and serve at the pleasure of, the EC. EC Subcommittees shall each:
- 723 (i) elect a chair or co-chair, which shall be an EC Member and will serve
724 until removed by the subcommittee's membership;
 - 725 (ii) carry out its work in accordance with the procedures adopted by the EC
726 for EC Subcommittees; and
 - 727 (iii) keep regular minutes of its proceedings and provide copies of these
728 minutes promptly to the Secretary.

729 Any task forces established by EC Subcommittees shall be comprised of
730 Members and other interested parties.

- 731 (b) There shall be a Triage Subcommittee of the EC with one representative from
732 each Segment within each Quadrant. The Triage Subcommittee shall review and
733 recommend disposition of each request received by NAESB for a Standard, or
734 Model Business Practice. Disposition shall mean scope, priority consistent with
735 the Annual Plan, and assignment to a Quadrant(s) and subcommittee(s) for action.
736 The Chair of the EC shall consult with individual Segments to appoint the
737 members of the Triage Subcommittee and shall as also appoint its chair.

738

739 **ARTICLE 11 - NOTICE**

740 **Section 11.1 Written Notice**

- 741 (a) Whenever written notice is required to be given to any person, it may be given to
742 the person, either personally or by sending a copy by first class or express mail,
743 postage prepaid, or courier service, charges prepaid, or by telegram (with
744 messenger service specified), telex or TWX (with answer back received),
745 electronic mail (or its equivalent), or by facsimile transmission, to his or her

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746 address or to his or her telex, TWX, electronic mail address or facsimile number
747 appearing on the books of NAESB, in the case of Directors or EC Members,
748 supplied by him or her to NAESB for the purpose of notice. If the notice is sent
749 by mail, telegraph or courier service, it shall be deemed to have been given when
750 deposited in the United States mail or with a telegraph office or courier service
751 for delivery to that person or, in the case of telex or TWX, when dispatched. A
752 notice of meeting shall specify the place, day and hour of the meeting and any
753 other information required by the Act. Except as otherwise provided by the Act
754 or these Bylaws, when a meeting is adjourned, it shall not be necessary to give
755 any notice of the adjourned meeting, or of the business to be transacted at an
756 adjourned meeting, other than by announcement at the meeting at which such
757 adjournment is taken.

758 (b) Notices given shall comply with the provisions of Article VI, Sections 1 and 3 of
759 the Certificate.

760 **Section 11.2 Waiver by Writing**

761 Whenever any written notice is required to be given, a waiver in writing, signed by the
762 person or persons entitled to the notice, whether before or after the time stated, shall be deemed
763 equivalent to the giving of the notice.

764 **Section 11.3 Waiver by Attendance**

765 Attendance of a person at any meeting shall constitute a waiver of notice of the meeting
766 except where a person attends a meeting for the express purpose of objecting, at the beginning of
767 the meeting, to the transaction of any business because the meeting was not lawfully called or
768 convened.

769

770 **ARTICLE 12 - CONFLICTS OF INTEREST**

771 **Section 12.1 Interested Directors and Officers**

772 No contract or transaction between NAESB and one (1) or more of its Members,
773 Directors, or officers or between NAESB and any other corporation, partnership, association, or

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774 other organization in which one (1) or more of its Directors or officers are directors or officers,
775 or have a financial interest, shall be void or voidable solely for such reason, or solely because the
776 Member, Director, or officer is present at or participates in the meeting of the Board or
777 committee thereof which authorizes the contract or transaction, or solely because his, her, or
778 their votes are counted for that purpose, if:

779 (a) the material facts as to the relationship or interest and as to the contract or
780 transaction are disclosed or are known to the Board or the committee thereof and
781 the Board or committee thereof in good faith authorizes the contract or transaction
782 by the affirmative votes of a majority of the disinterested Directors even though
783 the disinterested Directors are less than a quorum;

784 (b) the material facts as to his or her relationship or interest and as to the contract or
785 transaction are disclosed or are known to the Members entitled to vote thereon, if
786 any, and the contract or transaction is specifically approved in good faith by vote
787 of such Members; or

788 (c) the contract or transaction is fair as to NAESB as of the time it is authorized,
789 approved, or ratified by the Board or the Members.

790 Common or interested Directors may be counted in determining the presence of a quorum
791 at a meeting of the Board or of a committee thereof, which authorizes the contract or transaction.
792 NAESB's adoption of a Standard shall not constitute a "contract or transaction" within the
793 meaning of this section.

794

795 **ARTICLE 13 - LIMITATION OF LIABILITY; INSURANCE**

796 **Section 13.1 Limitation of Liability**

797 Article III, Section 6 of the Certificate contains limits on personal liability of Directors,
798 EC Members and other persons acting for NAESB, and these limitations are incorporated herein
799 by reference. Any repeal or amendment of Section 13.1 shall be prospective only and shall not
800 increase, but may decrease, a Director's liability with respect to actions or failures to act
801 occurring prior to such change.

802 **Section 13.2 Insurance**

803 NAESB shall purchase and maintain insurance on behalf of any person who is or was a
804 NAESB Director or NAESB Officer and, to the extent approved by the Board, on behalf of EC
805 Members, employees or agents of NAESB or on behalf of persons now or previously serving at
806 the request of NAESB as a director, officer, employee or agent of another domestic or foreign
807 corporation for profit or not-for-profit, partnership, joint venture, trust, or other enterprise
808 against any liability asserted against him or her and incurred by him or her in any such capacity,
809 or arising out of his or her status as such, whether or not NAESB would have the power to
810 indemnify him or her against that liability under the Act.

811

812 **ARTICLE 14 - INDEMNIFICATION**

813 **Section 14.1 Representative Defined**

814 For purposes of Article 14, "representative" means any Director, officer, employee, or
815 agent of NAESB.

816 **Section 14.2 Third-Party Actions**

817 NAESB shall indemnify, to the full extent not prohibited by law, any person who was or
818 is a party or is threatened to be made a party to any threatened, pending or completed action, suit
819 or proceeding, whether civil, criminal, administrative or investigative (other than an action by or
820 in the right of NAESB), by reason of the fact that he or she is or was a representative of NAESB,
821 or is or was serving at the request of NAESB as a representative of another domestic or foreign
822 corporation for profit or not-for-profit, partnership, joint venture, trust, or other enterprise,
823 against expenses (including attorneys' fees), judgments, fines, and amounts paid in settlement
824 actually and reasonably incurred by him or her in connection with the action, suit or proceeding
825 if he or she acted in good faith and in a manner he or she reasonably believed to be in, or not
826 opposed to, the best interests of NAESB and, with respect to any criminal action or proceeding,
827 had no reasonable cause to believe his or her conduct was unlawful. The termination of any
828 action, suit or proceeding by judgment, order, settlement, or conviction or upon a plea of nolo
829 contendere or its equivalent shall not of itself create a presumption that the person did not act in
830 good faith and in a manner that he or she reasonably believed to be in, or not opposed to, the best

831 interests of NAESB and, with respect to any criminal action or proceeding, had reasonable cause
832 to believe that his or her conduct was unlawful.

833 **Section 14.3 Derivative and Corporate Actions**

834 NAESB shall indemnify, to the full extent not prohibited by law, any person who was or
835 is a party, or is threatened to be made a party, to any threatened, pending or completed action or
836 suit by or in the right of NAESB to procure a judgment in its favor by reason of the fact that he
837 or she is or was a representative of NAESB or is or was serving at the request of NAESB as a
838 representative of another domestic or foreign corporation for profit or not-for profit, partnership,
839 joint venture, trust, or other enterprise, against expenses (including attorneys' fees) actually and
840 reasonably incurred by him or her in connection with the defense or settlement of the action or
841 suit if he or she acted in good faith and in a manner he or she reasonably believed to be in, or not
842 opposed to, the best interests of NAESB. Indemnification shall not be made under Section 14.3
843 in respect of any claim, issue or matter as to which the person has been adjudged to be liable to
844 NAESB unless and only to the extent that the Court of Chancery or the court in which the action
845 or suit was brought determines upon application that, despite the adjudication of liability but in
846 view of all the circumstances of the case, such person is fairly and reasonably entitled to
847 indemnity for such expenses that the Court of Chancery or other court shall deem proper.

848 **Section 14.4 Procedure for Effecting Indemnification**

849 Unless ordered by a court, any indemnification under Section 14.2 or Section 14.3 shall
850 be made by NAESB only as authorized in the specific case upon a determination that
851 indemnification of the representative is proper in the circumstances because he or she has met
852 the applicable standard of conduct set forth in those Sections. The determination shall be made:

- 853 (a) by the Board by a majority vote of a quorum consisting of Directors who were not
854 parties to the action, suit or proceeding; or
- 855 (b) if such a quorum is not obtainable or if obtainable a quorum of disinterested
856 Directors so directs, by independent legal counsel in a written opinion.

857 **Section 14.5 Advancing Expenses**

858 Expenses (including attorneys' fees) incurred in defending any action, suit or proceeding
859 referred to in Article 14 may be paid by NAESB in advance of the final disposition of the action,
860 suit or proceeding upon receipt of an undertaking by or on behalf of the representative to repay
861 the amount if it is ultimately determined that he or she is not entitled to be indemnified by
862 NAESB as authorized in this Article or otherwise.

863 **Section 14.6 Supplementary Coverage**

864 The indemnification and advancement of expenses provided by or granted pursuant to
865 Article 14 shall not be deemed exclusive of any other rights to which a person seeking
866 indemnification or advancement of expenses may be entitled under any bylaw, agreement, vote
867 of the Members or disinterested Directors, or otherwise, both as to action in his or her official
868 capacity and as to action in another capacity while holding that office. Section 12.1 (relating to
869 interested Directors or officers) shall be applicable to any bylaw, contract, or transaction
870 authorized by the Directors under this Section 14.6.

871 **Section 14.7 Duration and Extent of Coverage**

872 The indemnification and advancement of expenses provided by or granted pursuant to
873 Article 14 shall, unless otherwise provided when authorized or ratified, continue as to a person
874 who has ceased to be a representative of NAESB and shall inure to the benefit of the heirs and
875 personal representatives of that person.

876 **Section 14.8 Reliance and Modification**

877 Each person who shall act as a representative of NAESB shall be deemed to be doing so
878 in reliance upon the rights provided by Article 14. The duties of NAESB to indemnify and to
879 advance expenses to a representative provided in Article 14 shall be in the nature of a contract
880 between NAESB and the representative. No amendment or repeal of any provision of this
881 Article shall alter, to the detriment of the representative, his or her right to the advance of
882 expenses or indemnification related to a claim based on an act or failure to act which took place
883 prior to such amendment or repeal.

884

885 **ARTICLE 15 - ANNUAL REPORT**

886 **Section 15.1 Annual Report**

887 The Board shall present annually to the Members a report, verified by the Board Chair
888 and Treasurer or by a majority of the Board, describing the activities and accomplishments of
889 NAESB and containing a financial report addressing at least the following matters:

- 890 (a) The assets and liabilities, including the trust funds, of NAESB as of the end of the
891 fiscal year immediately preceding the date of the report.
- 892 (b) The principal changes in assets and liabilities, including the trust funds, during
893 the year immediately preceding the date of the report.
- 894 (c) The revenue or receipts of NAESB, both unrestricted and restricted to particular
895 purposes, for the year immediately preceding the date of the report, including
896 separate data with respect to each trust fund held by or for NAESB.
- 897 (d) The expenses or disbursements of NAESB, for both general and restricted
898 purposes, during the year immediately preceding the date of the report, including
899 separate data with respect to each trust fund held by or for NAESB.
- 900 (e) The number of Members of NAESB as of the date of the report, together with a
901 statement of increase or decrease in such number during the year immediately
902 preceding the date of the report, and a statement of the place where the names and
903 addresses of the current Members may be found.

904 The annual report of the Board shall be filed with the minutes of the meetings of the
905 Members.

906

907 **ARTICLE 16 - TRANSACTION OF BUSINESS**

908 **Section 16.1 Real Property**

909 NAESB shall make no purchase of real property nor sell, mortgage, lease away or
910 otherwise dispose of its real property, unless authorized by the vote of the Board. If the real

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911 property is subject to a trust, the conveyance away shall be free of trust and the trust shall be
912 impinged upon the proceeds of such conveyance.

913 **Section 16.2 Negotiable Instruments**

914 All checks or demands for money and notes of NAESB shall be signed by such officer or
915 officers as the Board may designate.

916

917 **ARTICLE 17 - CORPORATE RECORDS**

918 **Section 17.1 Corporate Records**

919 NAESB shall keep at its registered office or at its principal place of business: (a) a copy
920 of the Certificate, including all amendments thereto; (b) the original or a copy of its Bylaws,
921 including all amendments thereto to date, certified by the Secretary of NAESB; (c) an original or
922 duplicate record of the proceedings of the Board; (d) an original or duplicate record of the
923 proceedings of the EC; (e) an original or a duplicate membership register showing the names of
924 the Members, their respective addresses, and other details of membership, and (f) appropriate,
925 complete, and accurate books or records of account.

926

927 **ARTICLE 18 - AMENDMENTS**

928 **Section 18.1 Amendments**

929 The Bylaws of NAESB may be amended by the Board in the manner described in the
930 Certificate. Each Quadrant's Exhibit may be adopted or amended by majority vote of the
931 Directors representing that Quadrant or as may be specified in the procedures contained in that
932 Quadrant's Exhibit. Votes on consistency of Quadrant procedures with the Certificate and
933 Bylaws are in the manner described in Article V, Section 5 of the Certificate.

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EXHIBIT 1

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WHOLESALE GAS QUADRANT PROCEDURES

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EXHIBIT 2

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WHOLESALE ELECTRIC QUADRANT PROCEDURES

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EXHIBIT 3

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RETAIL GAS QUADRANT PROCEDURES

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EXHIBIT 4

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RETAIL ELECTRIC QUADRANT PROCEDURES

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AMENDED AND RESTATED
CERTIFICATE OF INCORPORATION
OF THE
NORTH AMERICAN ENERGY STANDARDS BOARD, INC.

Article I

Name, Duration, and Registered Agent

Section 1. The name of the corporation is the **NORTH AMERICAN ENERGY STANDARDS BOARD, INC.** (hereinafter referred to as "NAESB"). NAESB is a non-stock corporation.

Section 2. The period of duration of NAESB is PERPETUAL. NAESB may be dissolved at any time in the manner provided in the Statute; provided, however, that no later than December 31, 2004, NAESB's Board of Directors shall submit to the members a resolution recommending whether NAESB shall continue. An affirmative vote of both the Board of Directors and the members, as defined in Article V of this Certificate, shall be required to continue NAESB.

Section 3. Reserved.

Section 4. No later than October 1, 1996, the Board of Directors shall submit to the membership a proposal on whether to consolidate the functions of the Board of Directors and the Executive Committee. An affirmative vote of both the Board of Directors and the members, as defined in Article V of this Certificate, shall be required to consolidate the functions of the Board of Directors and the Executive Committee. If the functions of the Board of Directors and the Executive Committee are consolidated, the surviving entity shall become the Board of Directors.

Section 5. NAESB is not organized for pecuniary profit or for the pecuniary profit of its members, or to engage in a regular business ordinarily carried on for profit. No part of the net earnings of NAESB shall inure to the benefit of any member or members or other private persons. During its functioning life, and in the event of its dissolution, all net earnings of NAESB and its assets shall be devoted solely to the objects and purposes stated in this

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Certificate. Upon dissolution of NAESB, its assets may be distributed in any manner consistent with this Section and with the applicable provisions of law.

Section 6. The registered office and registered agent of NAESB is The Prentice-Hall Corporation System, Inc., 32 Loockerman Square, Suite L-100, Dover, Kent County, Delaware, 19904.

Article II

Purposes and Scope

Section 1. The objects and purposes of NAESB are to propose and adopt voluntary standards and model business practices designed to promote more competitive and efficient natural gas and electric service, as such standards apply to electronic data interchange ("EDI") record formats and communications protocols and related business practices that streamline the transactional processes of the natural gas and electric industries.

Section 2. NAESB shall engage in any lawful activities necessary or desirable to achieve the objectives and purposes of NAESB set forth in Section 1 of this Article II to the extent consistent with the provisions of Section 501(c)(6) of the Internal Revenue Code of 1986 (or any corresponding provision of any future revenue law) and the regulations promulgated thereunder (as they now exist or as they may be amended in the future, the "Code").

Section 3. NAESB shall be a non-profit organization qualifying under Section 501 (c) (6) of the Code and shall not have the authority to issue capital stock.

Section 4. NAESB shall not have any formal relationship with any regulatory agency. NAESB shall not have an advocacy role regarding its standards before the FERC or any other regulatory agency.

Article III

Organization and Management

Section 1. The business and affairs of NAESB shall be managed by the Board of Directors except to the extent that specific powers and duties are conferred upon the Executive Committee by this Certificate. The Board of Directors may delegate additional powers to the Executive Committee, provided that the Board of Directors may not delegate its power to approve an amendment of the Certificate of Incorporation, a merger or consolidation, a sale of substantially all the assets or dissolution of NAESB, or amendment of the By-Laws.

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

Section 3. Each representative of the Board of Directors and the Executive Committee shall have one vote. Neither the Board of Directors nor the Executive Committee shall allow substitutes for any member thereof at their respective meetings; provided, however, that, as provided in the By-Laws, the Executive Committee may have designated alternates as selected by their segment. The Board of Directors and Executive Committee shall further establish procedures for notational voting, attendance by telephone or video conferencing, and determination of quorums. These procedures shall be included in, or attached to, the By-Laws. The Board of Directors and the Executive Committee shall each elect a chairman from among their own members. The Chairman of the Board of Directors may request that any vote or action be taken by the Board of Directors without a meeting and without unanimous consent, and such action may be taken if approved by the appropriate voting levels specified in Article V. The Chairman of the Executive Committee may request that any vote or action be taken by the Executive Committee without a meeting and without unanimous consent, and such action may be taken if approved by the appropriate voting levels specified in Article V.

Section 4. Among its other duties of governance, the Board of Directors shall be responsible for approving the budget and Annual Plan(s), initiating and recommending charter changes, maintaining contacts within the natural gas and electric industries and with government agencies, and selecting counsel and the external auditor for NAESB. The Board of Directors shall also have the authority to adopt and amend the By-Laws pursuant to Section 5 of Article V.

Section 5. (a) The Executive Committee shall be responsible for (1) the development and formation of NAESB technical standards that are based upon broad industry consensus and recognize the particular needs of each Segment, (2) considering and coordinating its work with existing standards-setting organizations and with regard to standards already developed, and (3) establishing an accessible library of transactions developed by members of NAESB for future consideration by NAESB in the standards development process.

(b) In addition, the Executive Committee shall be responsible for: (1) recommending the initiation, maintenance, and approval of standards-related activities; (2) establishing working

committees as it deems necessary to perform NAESB's standards development functions pursuant to procedures set forth in the By-Laws; (3) preparing recommendations to the Board on the Annual Plan; (4) setting priorities for standards to be developed or modified pursuant to the Annual Plan; and, (5) directing activities for reviewing standards interpretation pursuant to the appropriate voting levels specified in Article V.

Section 6. The personal liability of the members of the Board of Directors and the Executive Committee, and such other persons acting for NAESB, to the extent applicable under the Statute, is hereby eliminated to the fullest extent permitted by Section 102(b)(7) of the Statute, as the same may be amended and supplemented.

Any person who is or was a director, officer, agent, or employee of NAESB, or is or was serving, at the request of NAESB, as a director, officer, agent, or employee of another corporation, trust, or enterprise, shall be entitled to be indemnified by NAESB to the fullest extent now or hereafter permitted by the Statute in connection with any actual or threatened action or proceeding (including civil, criminal, administrative or investigative proceedings) arising out of their service to such entity. The indemnification provided by this Article shall not be deemed exclusive of any other rights to which an indemnified person may be entitled under any by-law, agreement, insurance policy, or otherwise.

Section 7. The Chairman of the Board of Directors shall be the Chief Executive Officer of NAESB. An Executive Director shall be selected by the Board of Directors and shall exercise the duties of the chief operating officer of NAESB.

Section 8. Advisory Committee. The Board of Directors shall establish a permanent, standing advisory committee to be composed of representatives of federal, state, and local agencies; public interest groups; non-profit research organizations; and similar organizations, selected pursuant to procedures set forth in the By-Laws. The Board of Directors and the Executive Committee shall seek the advice of this committee as either deems appropriate.

Section 9. NAESB shall have no standing relationships with any technical or trade association; provided, however, NAESB may establish an appropriate relationship with the American National Standards Institute (ANSI) for the purpose of seeking ANSI adoption of its standards, and further provided, however, that any Board-approved arrangement for financial support of NAESB by any technical or trade association shall not be deemed to create a prohibited standing relationship. NAESB may work with such associations on an ad hoc basis. Furthermore, any such association may become a non-voting member of NAESB.

Article IV

Membership

Section 1. NAESB shall have two classes of members, voting members and non-voting members. The requirements for becoming a member of NAESB shall facilitate to the greatest extent possible a wide based membership consistent with NAESB's fiscal requirements and shall be consistent with all applicable law. Membership criteria for each Segment shall be established separately and set forth in or attached to the By-Laws; provided that the adoption of the requirements for membership in any Segment and any amendment thereof must first be approved by a majority of the Directors representing such Segment.

Section 2. Voting members. The voting members of NAESB shall be individuals, partnerships, firms or corporations, which shall apply for membership in one or more Segments and are in good standing in accordance with the procedures of their Segment(s). As a condition of membership, each voting member will be required to execute a revocable appointment, in a form approved by the Board of Directors, authorizing a designated proxy to vote in support of any of the proposals adopted by the Board of Directors described in Article V, Section 3 of this Certificate of Incorporation which may be submitted to a vote of the general membership. Any voting member may resign from NAESB by written notice to the Executive Director, whereupon that member's participation in all NAESB activities shall cease.

A voting member which is delinquent in the payment of its dues shall continue as a member, but shall not be allowed to vote until it is current in the payment of its dues.

Section 3. Non-voting members. Non-voting members shall include any person or entity, including a governmental entity, that has a legitimate business interest in a Quadrant of NAESB and desires to join as a non-voting member.

Article V

Voting

Section 1. All actions within the respective responsibilities of the Board and the Executive Committee, as the case may be, shall be by majority vote, except as otherwise provided in this Certificate of Incorporation. A quorum shall be a majority of the Board or Executive Committee, respectively.

Section 2. Voting members shall be entitled to one vote each at meetings of members, except that procedures attached to the By-Laws may provide for weighted or limited voting for

members of any Segment, if such By-Law provision is first approved by a majority of the Directors representing such Segment, provided such Segment is fully populated to the extent determined in the By-laws. The quorum for meetings of members shall be one-third of the total number of votes eligible to be cast unless a different number is established by this Certificate.

Section 3. An affirmative vote of at least seventy-five percent (75%) from the Board, including an affirmative vote of at least forty percent (40%) from Directors representing each Segment within each Quadrant, provided such Segment is fully populated to the extent determined in the By-laws. which vote must be ratified by a ninety percent (90%) affirmative vote of the general membership, shall be required to approve an amendment of this Certificate, including NAESB's scope and purposes described in Article II, to continue NAESB pursuant to Section 2 of Article I, to expand or contract the activities of NAESB pursuant to Section 3 of Article I and to consolidate the functions of the Board of Directors and the Executive Committee pursuant to Section 4 of Article I. No quorum of the members shall be required for such votes.

Section 4. An affirmative vote of at least sixty-seven percent (67%) from each of the applicable Quadrant(s) of the Executive Committee, including an affirmative vote of at least forty percent (40%) from representatives of each Segment within each of the applicable Quadrant(s), provided such Segment is fully populated to the extent determined in the By-laws. which vote must be ratified by a sixty-seven percent (67%) affirmative vote of those members of the applicable Quadrants of the general membership voting, shall be required to adopt, promulgate, amend, revise, modify, interpret, or rescind a standard. No quorum of the members shall be required for such vote.

Section 5. The By-Laws may be adopted or amended by the Board on an affirmative vote of at least seventy-five percent (75%) from the Board, including an affirmative vote of at least forty percent (40%) from Directors representing each Segment within each Quadrant, provided such Segment is fully populated to the extent determined in the By-laws. The procedures of any Quadrant attached to the By-Laws as an Exhibit, or any amendment of such procedures, may be accepted for consistency by the Board by a simple majority vote.

Article VI

Meetings

Section 1. The Board of Directors and Executive Committee shall meet as often as necessary to consider matters within their respective responsibilities. Notice of such meetings,

which shall be appropriate under the circumstances and comply with all applicable statutory requirements, shall be given.

Section 2. The Board of Directors shall instruct the Executive Director to call such meetings of the general membership of NAESB as are required by statute or are necessary to transact the business of NAESB. Meetings of NAESB may also be called by a majority of the members of NAESB or by a majority of the members of the Board of Directors. Between meetings of NAESB, votes of the membership may be taken by written ballot.

Section 3. Written notice of the annual meeting of NAESB shall be given in such manner as is prescribed by Statute, but not less than ten (10) nor more than sixty (60) days prior to the date of the annual meeting. Notice of other meetings shall be given in a manner as may reasonably permit attendance at such meeting, but in any event in a time and manner sufficient to satisfy any statutory requirements.

Article VII

Funding

Section 1. The funds necessary to conduct the business of NAESB shall be determined by the NAESB Board of Directors. The NAESB Board of Directors shall determine the amount of the membership fee to be assessed to each member on the year prior to its assessment, provided that except for promotional dues, the dues shall be the same for all voting members. NAESB may elect to receive funds from non-dues sources to the extent authorized by the Board of Directors and permitted by law and NAESB's bylaws. The Executive Director of NAESB shall ensure that NAESB expenditures in any year shall not exceed the sum of: (x) the aggregate amount of membership fees received (or projected to be collected) during the year to which such annual budget relates and (y) all other monies or income received (or projected to be received) by NAESB from whatever source during such year.

Section 2. A vote of at least seventy-five percent (75%) from the Board, including an affirmative vote of at least forty percent (40%) from the Directors representing each Segment within each Quadrant, provided such Segment is fully populated to the extent determined in the By-laws, shall be required to determine how to fund a budget deficit or to establish or modify a promotional dues program.

Article VIII

Amendment of Certificate of Incorporation

Section 1. The provisions contained in this Certificate of Incorporation may be amended by the adoption of a resolution pursuant to the voting procedures set forth at Article V.

North American Energy Standards Board

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Order 890 Work Plan					
Status ¹	Cite	Action Item/Work Plan	Action Item Home	Target Dates	Status
ATC GROUP ASSIGNMENTS (ESS/ITS and BPS)					
✓	243, 244, 246	<p>Business Practice Standards complementary to NERC Reliability Standards for Existing Transmission Commitment (ETC) to create a “consistent approach for determining the amount of transfer capability a transmission provider may set aside for its native load and other committed uses”, including the elements of ETC for full implementation of the NERC MOD-001 reliability standard*</p> <p>Paragraphs 243, 244, and 246 will require coordination with the NERC Order 890 reliability standards development</p> <p>*Posting requirements for ETC assigned to ESS/ITS (see 2008 AP 2(a)(vi)(4) and Order 890 WP, Group 6)</p> <p>Order 890-A:</p> <p>63. The Commission also found that inclusion of all requests for transmission service in ETC would likely overstate usage of the system and understate ATC. The Commission therefore found that reservations that have the same point of receipt (POR (generator) but different point of delivery (POD) (load), for the same time frame, should not be modeled in the ETC calculation simultaneously if their combined reserved transmission capacity exceeds the generator’s nameplate capacity at the POR. The Commission directed public utilities, working through NERC, to develop requirements in MOD-001 that lay out clear instructions on how these reservations should be modeled. The Commission also concluded that some elements of ETC are candidates for business practices instead of reliability standards and directed public utilities, working through NAESB, to develop business practices necessary for full implementation of the MOD-001 reliability standard.</p> <p>151. We decline to impose additional posting requirements regarding ETC uses, as requested by EPSA and Powerex. In Order No. 890, the Commission required transmission providers to make available all data used to calculate ATC for constrained paths and any system planning studies or specific network impact studies performed for customers. This would include information regarding ETC uses, including grandfathered agreements, that affect ATC calculations or study results. EPSA and Powerex fail to demonstrate that it is necessary to require the posting of additional information regarding ETC uses to verify the accuracy of the transmission provider’s ATC calculations. We note in response to Powerex that, if any new service taken upon expiration of a pre-Order No. 888 contract, the terms and conditions of the transmission provider’s OATT would apply.</p>	WEQ 2008 Annual Plan Item 2(b)(ii)(1)	<p>These dates are dependent on NERC deliverables and may be changed if NERC timelimes for Order 890 are changed:</p> <p>FORMAL COMMENT: 2nd Quarter, 2008</p> <p>WEQ EC VOTE: 3rd Quarter, 2008</p> <p>RATIFICATION: 3rd Quarter, 2008</p>	<p>The NAESB ESS/ITS and BPS are working to draft complementary business practices to the NERC MOD028, MOD029, and MOD030, which includes ETC. The NERC team has determined that there is not a need for explicit posting of ETC values; the ESS/ITS and BPS supports the decision. ESS/ITS/BPS will look at the NERC MODs to determine if additional business practices are needed for ETC components.</p> <p>Recommendation was voted out of subcommittee on June 17, 2008.</p> <p>Formal comment period closed on July 21, 2008.</p> <p>Approved by WEQ EC August 19, 2008.</p> <p>Ratified by the membership on 9/22/2008</p>

¹ Status is defined as: ✓ - Complete, C – formal commenting period, I – in progress of standards development underway in subcommittee, NS – development not started.

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Order 890 Work Plan					
Status	Cite	Action Item/Work Plan	Action Item Home	Target Dates	Status
✓	293	<p>Business practice standards for accounting for counterflows. These standards will be included in the ATC business practice standards (Paragraph 293 will require coordination with the NERC Order 890 reliability standards development)</p>	WEQ 2008 Annual Plan Item 2(b)(ii)(2)	<p>These dates are dependent on NERC deliverables and may be changed if NERC timelimes for Order 890 are changed: FORMAL COMMENT: 2nd Quarter, 2008 WEQ EC VOTE: 3rd Quarter, 2008 RATIFICATION: 3rd Quarter 2008</p>	<p>The ESS/ITS and BPS have created a list of items that are considered post-backs to be used in the creation of post back requirements. NERC has requested that NAESB practices address post-back requirements. (8/16/07) On March 11-12, 2008, the ESS/ITS and BPS passed motions to define high level concepts for counterflows and post backs. Draft standards are being developed by sub-teams. Subcommittee voted recommendation for counterflows and Postbacks out of subcommittee on May 15, 2008. Formal comment period closed on June 23, 2008. Approved by WEQ EC August 19, 2008. Ratified by the membership on 9/22/2008.</p>
✓	257	<p>Capacity Benefit Margin (CBM) Business Practices</p> <ul style="list-style-type: none"> Business practice standards to set forth “how the CBM value shall be determined, allocated across transmission paths, and used” and how transmission providers will “reflect the set-aside of transfer capability as CBM in the development of the rate for point-to-point transmission service.” (Paragraph 257 will require coordination with the NERC Order 890 reliability standards development) <p>Order 890-A: 68. The Commission directed public utilities, working through NERC and NAESB, to develop clear standards and business practices for how the CBM value is determined,</p>	WEQ 2008 Annual Plan Item 2(b)(iii)(1)	<p>These dates are dependent on NERC deliverables and may be changed if NERC timelimes for Order 890 are changed: FORMAL COMMENT: 3rd Quarter, 2008 WEQ EC VOTE: 4th</p>	<p>The ESS/ITS and BPS have begun identifying complementary business practices to NERC MOD004. The ESS/ITS and BPS have identified the NAESB business practice standards that may be needed to address CBM, including</p>

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Order 890 Work Plan					
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		<p>allocated across transmission paths and flowgates, and used. To ensure that CBM is used for its intended purpose, the Commission provided that CBM shall only be used to allow an LSE to meet its generation reliability criteria. The Commission rejected requests to allow CBM to be used to meet reserve-sharing needs, explaining that TRM is the appropriate category for that purpose. Public utilities were directed to work with NAESB to develop an OASIS mechanism that will allow for auditing of CBM usage.</p> <p>83. The Commission did not mandate a particular methodology for allocating CBM over transmission paths and flowgates in Order No. 890. We therefore reject Southern's argument that development of a consistent methodology for calculating CBM would be harmful to LSEs because reserve needs vary from area to area. While we expect the NERC and NAESB process to produce a consistent and transparent process for setting aside and allocating CBM based on LSE requests, we decline to prescribe a specific method for how CBM should be obtained or allocated or otherwise determine the amount of capacity that the transmission provider has to set aside in response to requests from multiple LSEs.</p>		<p>Quarter, 2008 RATIFICATION: 4th Quarter, 2008</p>	<p>where the CBM value shall be posted; how to allocate priority use of CBM; how to allocate the amount of CBM; the ability to audit CBM usage; a new request type on OASIS to distinguish a CBM reservation; and for the posting of CBM on the OASIS systemdata template.</p> <p>The joint subcommittee has determined no additional standards need to be developed for this work plan item.</p> <p>Recommendation voted out of subcommittee on July 30th.</p> <p>Formal Comment period closes September 5, 2008.</p> <p>Approved by WEQ EC November 7, 2008.</p> <p>Ratified by the membership on December 15, 2008.</p>
✓	262	<ul style="list-style-type: none"> Business practice standards that include an OASIS mechanism to "allow for auditing of CBM usage." (Paragraph 262 does not require coordination with the NERC Order 890 reliability standards development) <p>Order 890-A:</p> <p>68. The Commission directed public utilities, working through NERC and NAESB, to develop clear standards and business practices for how the CBM value is determined, allocated across transmission paths and flowgates, and used. To ensure that CBM is used for its intended purpose, the Commission provided that CBM shall only be used to allow an LSE to meet its generation reliability criteria. The Commission rejected requests to allow CBM to be used to meet reserve-sharing needs, explaining that TRM is the appropriate category for that purpose. Public utilities were directed to work with</p>	<p>WEQ 2008 Annual Plan Item 2(b)(iii)(2)</p>	<p>FORMAL COMMENT: 3rd Quarter, 2008 WEQ EC VOTE: 4th Quarter, 2008 RATIFICATION: 4th Quarter, 2008</p>	<p>The ESS/ITS and BPS are continuing to evaluate and review the templates and practices for CBM, including auditing of CBM usage. 8/16/07</p> <p>If we are using existing templates and the existing templates have corresponding "Audit Templates", additional</p>

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✓		<p>NAESB to develop an OASIS mechanism that will allow for auditing of CBM usage.</p> <ul style="list-style-type: none"> Any additional business practice standards needed to complement the NERC CBM reliability standards (MOD004) created as a result of this effort. (This item is a catchall section in case there are areas where business practices are needed as a result of the NERC CBM reliability standards. This item will require coordination with the NERC Order 890 reliability standards development). 	WEQ 2008 Annual Plan Item 2(b)(iii)(3)	<p>These dates are dependent on NERC deliverables and may be changed if NERC timelines for Order 890 are changed: FORMAL COMMENT: 3rd Quarter, 2008 WEQ EC VOTE: 4th Quarter, 2008 RATIFICATION: 4th Quarter, 2008</p>	<p>work may not be needed. The joint subcommittee is working with JISWG on this annual plan item. Changes are expected to be required for WEQ 001, 002, 003, 004, and 013. Recommendation voted out of subcommittee on July 30th. Formal Comment period closes September 5, 2008. Approved by WEQ EC November 7, 2008. Ratified by the membership on December 15, 2008.</p> <p>The ESS/ITS and BPS have begun identifying complementary business practices to NERC MOD004. The joint subcommittee has determined no additional standards need to be developed for this work plan item. Recommendation voted out of subcommittee on July 30th. Formal Comment period closes September 5, 2008. Approved by WEQ EC November 7, 2008. Ratified by the membership on December 15, 2008.</p>

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Order 890 Work Plan					
Status	Cite	Action Item/Work Plan	Action Item Home	Target Dates	Status
✓	272	<ul style="list-style-type: none"> Transmission Reliability Margin (TRM): Business Practice Standards to complement the NERC reliability standards for TRM (Paragraph 272 will require coordination with the NERC Order 890 reliability standards development) 	WEQ 2008 Annual Plan Item 2(b)(iv) (1)	<p>These dates are dependent on NERC deliverables and may be changed if NERC timelimes for Order 890 are changed:</p> <p>FORMAL COMMENT: 2nd Quarter, 2008 WEQ EC VOTE: 2nd Quarter, 2008 RATIFICATION: N/A</p>	<p>The ESS/ITS and BPS have begun identifying complementary business practices to NERC MOD008.</p> <p>The ESS/ITS and BPS are continuing to evaluate and review the templates and practices for TRM, 8/16/07</p> <p>The ESS/ITS and BPS determined no additional standards needed to be developed for this item and voted for the co-chairs to develop recommendation and post formal comments 3/31/08.</p> <p>Recommendation posted for 30-day formal comment period on April 8th.</p> <p>The recommendation was voted out of the EC on May 13.</p>
✓	273	<ul style="list-style-type: none"> The TRM business practice standards will include specification of the appropriate uses of TRM and when transmission providers may set aside TRM (Paragraph 273 will require coordination with the NERC Order 890 reliability standards development) <p>Order 890-A:</p> <p>94. The Commission clarifies that NERC was not directed to identify an actual number or a particular methodology to include in the TRM standards, MOD-008-0 and MOD-009-0. The Commission's intent was to require NERC and NAESB to include consistent criteria and guidelines in the calculation and uses of TRM by transmission providers. Likewise, in response to Southern's concern regarding flexibility to use something other than the ratings reduction method discussed in Order No. 890, we clarify that the ratings reduction method is only an example of a simple method that could be used. Our intent is not to prohibit a transmission provider from using a more sophisticated method, so long as it is consistent with the reliability standards developed </p>	WEQ 2008 Annual Plan Item 2(b)(iv)(2)	<p>These dates are dependent on NERC deliverables and may be changed if NERC timelimes for Order 890 are changed:</p> <p>FORMAL COMMENT: 2nd Quarter, 2008 WEQ EC VOTE: 2nd Quarter, 2008 RATIFICATION: N/A</p>	<p>The ESS/ITS and BPS have begun identifying complementary business practices to NERC MOD008.</p> <p>The ESS/ITS and BPS are continuing to evaluate and review the templates and practices for TRM, 8/16/07</p> <p>The ESS/ITS and BPS determined no additional standards needed to be developed for this item and voted for the co-chairs to</p>

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Status ¹	Cite	Action Item/Work Plan	Action Item Home	Target Dates	Status
		by NERC.			develop recommendation and post formal comments 3/31/08. Recommendation posted for 30-day formal comment period on April 8 th . The recommendation was voted out of the EC on May 13.
✓		<ul style="list-style-type: none"> Any additional business practice standards needed to complement the NERC TRM reliability standards (MOD008) created as a result of this effort (This item is a catchall section in case there are areas where business practices are needed as a result of the NERC TRM reliability standards. This item will require coordination with the NERC Order 890 reliability standards development). 	WEQ 2008 Annual Plan Item 2(b)(iv)(3)	<p>These dates are dependent on NERC deliverables and may be changed if NERC timeliness for Order 890 are changed:</p> <p>FORMAL COMMENT: 2nd Quarter, 2008 WEQ EC VOTE: 2nd Quarter, 2008 RATIFICATION: N/A</p>	<p>The ESS/ITS and BPS have begun identifying complementary business practices to NERC MOD008.</p> <p>The ESS/ITS and BPS are continuing to evaluate and review the templates and practices for TRM, 8/16/07</p> <p>The ESS/ITS and BPS determined no additional standards needed to be developed for this item and voted for the co-chairs to develop recommendation and post formal comments 3/31/08.</p> <p>Recommendation posted for 30-day formal comment period on April 8th.</p> <p>The recommendation was voted out of the EC on May 13.</p>
✓	301	Business Practice Standards for ATC and AFC Calculation Methodologies to complement the NERC reliability standards created for ATC and AFC Methodologies (NERC MOD001 (Available Transfer Capability); NERC MOD028 (Network Response Available Transfer Capability); NERC MOD029 (Rated System Path Available Transfer		<p>These dates are dependent on NERC deliverables and may be changed if NERC</p>	<p>The ESS/ITS and BPS has drafted several sets of language and is in the process of coordinating</p>

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		<p>Capability); and NERC MOD030 (Flowgate Network Response Available Transfer Capability):</p> <ul style="list-style-type: none"> Business practice standards to address the frequency and posting requirements for all ATC components that are complementary to the related NERC reliability standards (Paragraph 301 will require coordination with the NERC Order 890 reliability standards development) <p>Order 890-A:</p> <p>53. We clarify in response to NorthWestern that TRM may be used to accommodate the procurement of ancillary services used to provide service under the pro forma OATT. We deny as premature EPSA's and Williams' requests for clarification regarding the realtime determination and posting of ATC and AFC values, as well as posting of utilization of transmission provider's own system ETC. In Order No. 890, the Commission required an exchange of the data both for short and long-term ATC/AFC calculation that will increase the accuracy of ATC calculations.³³ The Commission also required that ATC be recalculated by all transmission providers on a consistent time interval, and in a manner that closely reflects the actual topology of the system, load forecast, interchange schedules, transmission reservations, facility ratings, and other necessary data, and that NERC/NAESB revise the related reliability standard and business practices accordingly.³⁴ EPSA and William should address their concerns through the NERC and NAESB processes implementing these requirements.</p> <p>60. Order No. 890 requires NERC and NAESB to develop a single set of ATC-related standards that will apply to all transmission providers, including RTOs and ISOs. We understand that the NERC ATC standard drafting team includes representatives from various industry sectors, including RTOs/ISOs, and we encourage NYISO to participate in the standard development process to provide NERC an opportunity to address its concerns. To the extent NYISO feels its concerns are not address in this process, it should bring the issue to the Commission's attention on review of the resulting reliability standards.</p> <p>101. The Commission directed public utilities, working through NERC and NAESB, to revise reliability standard MOD-001 to require ATC to be recalculated by all transmission providers on a consistent time interval and in a manner that closely reflects the actual topology of the system, e.g., generation and transmission outages, load forecast, interchange schedules, transmission reservations, facility ratings, and other necessary data. The Commission stated that this process must also consider whether ATC should be calculated more frequently for constrained facilities.</p> <p>104. The Commission agrees with Powerex that the standards adopted through the NERC and NAESB processes should serve as minimum or "no less frequent than" requirements to recalculate ATC. Transmission providers also must update their ATC calculation</p>	<p>WEQ 2008 Annual Plan Item 2(b)(v)(1)</p>
			<p>Target Dates timelines for Order 890 are changed: FORMAL COMMENT: 2nd Quarter, 2008 WEQ EC VOTE: 3rd Quarter, 2008 RATIFICATION: N/A</p>
			<p>Status alignment with the NERC ATC Drafting Team. The ESS/ITS and BPS are drafting documents that will facilitate agreement on concepts/scope. The ESS/ITS and BPS determined no additional standards needed to be developed for this item and voted for the co-chairs to develop recommendation and post formal comments 4/16/08. Recommendation posted for 30-day formal comment period on April 23rd. Approved by WEQ EC August 19, 2008.</p>

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		<p>when they receive substantial and material changes in data, such as updated load forecasts, changes in topology and dispatch patterns, which may be more frequent than the NERC and NAESB standards would otherwise require. In the absence of substantial and material changes in data, transmission providers are not required to update ATC on a more frequent basis than the minimum frequency that the NERC and NAESB standards require, once implemented. The Commission will consider the adequacy of the time frame for ATC updates on review of these standards.</p> <p>148. In Order No. 890, the Commission required transmission providers to make available, upon request, all data used to calculate ATC, TTC, CBM and TRM for any constrained posted path. We believe that this adequately addresses Constellation's request for access to modeling data used by the transmission provider. Specifically, we expect transmission providers to make available, upon request and subject to appropriate confidentiality protections and CEII requirements, the following modeling data: (1) load flow base cases and generation dispatch methodology; (2) contingency, subsystem, monitoring, change files and accompanying auxiliary files; (3) transient and dynamic stability simulation data and reports on flowgates which are not thermally limited; (4) list of transactions used to update the base case for transmission service request study; (5) special protection systems and operating guides, and specific description as to how they are modeled; (6) model configuration settings; (7) dates and capacities of new and retiring generation; (8) new and retired generation included in the model for future years; (9) production cost models (including assumptions, settings, study results, input data, etc.), subject to reasonable and applicable generator confidentiality limitations; (10) searchable transmission maps, including PowerWorld or PSSE diagrams; (11) OASIS names to Common Names table and PTI bus numbers; and, (12) flowgate and interface limits including limit category (thermal, steady state or transient, voltage or angular). We decline, however, to require the transmission provider to post this information on OASIS, as Constellation suggests. We conclude that making this information available on request provides sufficient transparency for customers without unduly burdening the transmission provider.</p> <p>149. With regard to the modeling support information sought by Constellation, we believe much of this information should already be stated in each transmission provider's Attachment C. In Order No. 890, the Commission required each transmission provider to set forth in the Attachment C to its OATT the ATC calculation methodology used by the transmission provider. To the extent necessary, we clarify that the step-by-step modeling study methodology and criteria for adding or eliminating flowgates (permanent and temporary) is part of the ATC methodology that must be stated in the transmission provider's Attachment C. We direct any transmission provider that has failed to include this information in its Attachment C to include that information as part of the compliance filing directed in section II.C. If the transmission provider has already</p>	

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Status ¹	Cite	Action Item/Work Plan	Action Item Home
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		<p>satisfied this obligation in a previous compliance filing, it should refer to that filing instead.</p> <p>150. We deny as premature Constellation's request to require OASIS postings of additional model benchmarking and forecasting data/TSR study audit data. Such information would be utilized in the process of updating and benchmarking models to actual events, which is the subject of ongoing efforts to modify relevant reliability standards from the MOD and facilities design, connections and maintenance (FAC) groups.</p> <p>152. We deny TDU Systems' request to require transmission providers to grant customers access to proprietary modeling software used to calculate ATC values. The Commission believes at this time that the requirements of Order No. 890 are sufficient to achieve the Commission's transparency goals without further requiring the disclosure of proprietary software.</p>	

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Order 890 Work Plan					
Status	Cite	Action Item/Work Plan	Action Item Home	Target Dates	Status
✓	310	<ul style="list-style-type: none"> Business practice standards for data exchange for ATC modeling complementary to the related NERC reliability standards including any OASIS posting requirements to achieve the data exchange (Paragraph 310 will require coordination with the NERC Order 890 reliability standards development) 	WEQ 2008 Annual Plan Item 2(b)(v)(2)	<p>These dates are dependent on NERC deliverables and may be changed if NERC timelines for Order 890 are changed:</p> <p>FORMAL COMMENT: 2nd Quarter, 2008</p> <p>WEQ EC VOTE: 2nd Quarter, 2008</p> <p>RATIFICATION: N/A</p>	<p>NERC will be addressing data exchange standards and will identify any new OASIS posting requirements or template query requirements which are needed in order to facilitate data exchange for ATC modeling</p> <p>On March 13, 2008 the ESS/ITS and BPS determined the work associated to this item has been completed by NERC and recommended no further action be taken by NAESB.</p> <p>Recommendation posted for 30-day formal comment period on March 17th.</p> <p>The recommendation was voted out of the EC on May 13.</p>
✓	369	<ul style="list-style-type: none"> Business practice standards that will set forth how transmission providers will post “explanations of the reason for a change in monthly and yearly ATC values on a constrained path.” The standards will include a requirement that the transmission provider post the reason for the change in a narrative form. The posted information will include “the (1) specific events which gave rise to the change and (2) new values for ATC on that path (as opposed to all points on the network).” (Paragraph 369 will not require coordination with the NERC Order 890 reliability standards development) <p>Although not specified in the WEQ 2008 AP, it is expected that this standard will also contain requirements associated with annotations when ATC remains at zero for six months or longer.</p> <p>Order 890-A: 124. We believe that E.ON U.S. overestimates the burden of complying with this requirement. Since TTC standardization is ongoing, it is impossible to identify with</p>	WEQ 2008 Annual Plan Item 2(b)(v)(3)	<p>FORMAL COMMENT: 1st Quarter, 2008</p> <p>WEQ EC VOTE: 2nd Quarter, 2008</p> <p>RATIFICATION: 2nd Quarter, 2008</p>	<p>Voted out of subcommittee for formal comment on February 13, 2008.</p> <p>Approved by the EC via notational ballot on April 14th.</p> <p>Membership ratification completed on May 16th.</p>

Order 890 Work Plan					
Status ¹	Cite	Action Item/Work Plan	Action Item Home	Target Dates	Status
✓	413	<p>precision the steps that will need to be taken to comply with the posting requirement. The appropriate forum to raise concerns regarding the burden of particular TTC calculation requirements is in the NAESB standards development process. In any event, we would expect that the posting of narratives for changes in monthly and yearly ATC values as a result of a 10 percent change in TTC will be triggered mainly by topology changes resulting from transmission lines and generator in-service status, as well as new facilities additions, that are reported on OASIS.</p> <p>125. We clarify in response to Southern that transmission providers do not need to list each and every circumstance or occurrence that impacts TTC values from the previous month or year and, instead, may list the primary events that give rise to the update. Again, we expect that TTC changes will generally result from topology changes and, therefore, the primary reasons for an update would be changes in schedules of transmission or generation additions, prolonged outages, or changes in maintenance schedules causing a TTC change of 10 percent. We agree with Southern that the transmission provider should post these narrative explanations on OASIS via a template and data element that is to be defined by NAESB. We direct transmission providers, working through NAESB, to develop the OASIS functionality necessary for such postings. Pending completion of this work by NAESB, we direct transmission providers to post these narrative explanations as comments on OASIS.</p> <ul style="list-style-type: none"> Business practice standards for posting on OASIS of the “underlying load forecast assumptions for all ATC calculations” (Paragraph 413 will not require coordination with the NERC Order 890 reliability standards development) <p>Order 890-B:</p> <p>35. We clarify, however, that the Commission intended for transmission providers to post the underlying factors used to make load forecasts that have a significant impact on calculations, such as temperature forecasts, not all economic and other data that underlies each and every daily load forecast. Transmission providers must post a description of their load forecast method including how economic and weather assumptions are used in load forecasting. The Commission’s intent is to increase transparency in the transmission provider’s process of forecasting, providing assurance to customers that loads are consistently being forecast using methodologies which are not subject to daily manipulation to favor affiliates.</p>	WEQ 2008 Annual Plan Item 2(b)(v)(4)	<p>These dates are dependent on NERC providing responses to NERC by the BPS/ESS/TTS.</p> <p>FORMAL COMMENT: 2nd Quarter, 2008 WEQ EC VOTE: 2nd Quarter, 2008 RATIFICATION: 2nd Quarter, 2008</p>	<p>Voted out of subcommittee for formal comment on March 10, 2008. Approved by the EC via notational ballot on April 23rd. Recommendation was posted for membership ratification on June 23rd. Membership ratification completed on July 23rd.</p>
✓	405	<ul style="list-style-type: none"> Business practice standards for posting on OASIS of the “actual daily peak load for the prior day.” (Paragraph 405 will not require coordination with the NERC Order 890 reliability standards development) 	WEQ 2008 Annual Plan Item 2(b)(v)(5)	<p>FORMAL COMMENT: 1st Quarter, 2008 WEQ EC VOTE: 2nd Quarter, 2008 RATIFICATION: 2nd Quarter, 2008</p>	<p>Voted out of subcommittee for formal comment on March 10, 2008. Approved by the EC via notational ballot on April</p>

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Order 890 Work Plan					
Status ¹	Cite	Action Item/Work Plan	Action Item Home	Target Dates	Status
✓		<ul style="list-style-type: none"> Business practice standards to complement NERC reliability standards for Transfer Capability in response to new NERC Supplemental SAR: Revisions to Existing Standards MOD001-MOD009, FAC12-13 (This item was added as a result of the Supplemental SAR NERC created in case additional business practices are needed as a result of the work on this SAR by NERC. It does not have a cite in Order 890. This item will require coordination with the NERC Order 890 reliability standards development). 	WEQ 2008 Annual Plan Item 2 (b)(vi)	Quarter, 2008	23 rd . Recommendation posted for Membership Ratification on June 23 rd . Membership ratification completed on July 23 rd .
✓		<ul style="list-style-type: none"> Business practice standards to set forth the procedure for: input on TTC and ATC methodologies and values. (During the Order 890 NERC and NAESB joint standards development effort, it was determined that the standards contained in MOD003 should be business practice standards instead of reliability standards. NERC has requested that NAESB adopt the standards as business practices via correspondence to Ms. McQuade, NAESB President.) This item will require coordination with the NERC Order 890 reliability standards development because the language to address this item is contained within a draft standard that addresses items that are dependent on NERC deliverables, i.e., the requirements to create an "ATC Information Link" on OASIS. There is no Order 890 cite for this item. 	WEQ 2008 Annual Plan Item 2 (b)(vii)	These dates are dependent on NERC deliverables and may be changed if NERC timeliness for Order 890 are changed: FORMAL COMMENT: 2 nd Quarter, 2008 WEQ EC VOTE: 3 rd Quarter, 2008 RATIFICATION: N/A	The ESS/ITS and BPS is in the process of coordinating alignment with the NERC ATC Drafting Team. On May 1, 2008, the subcommittee determined no additional standards were required for this work plan item. Posted for formal comments on May 5, 2008. Approved by WEQ EC August 19, 2008.
✓		<ul style="list-style-type: none"> Develop any additional business practice standards to support transparency reporting and related functions that may be required as a result of the final order. 	WEQ 2008 Annual Plan Item 2(c)	These dates are dependent on NERC deliverables and may be changed if NERC timeliness for Order 890 are changed: FORMAL COMMENT: 2 nd Quarter, 2008 WEQ EC VOTE: 2 nd Quarter, 2008 RATIFICATION: 2 nd Quarter, 2008	Voted out of subcommittee for formal comment on March 13, 2008. Approved by the EC via notational ballot on May 2, 2008. Membership ratification period closes June 27, 2008. Recommendation was ratified by the membership on June 27, 2008.

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▼		Modify WEQ-001 to reflect in the definition of certain ancillary services that such ancillary services may be provided by non-generation resources such as demand resources. (http://www.naesb.org/pdf3/weq_ec051308w2.doc)	WEQ 2008 Annual Plan Item 6(d)	RATIFICATION: N/A FORMAL COMMENT: 3 rd Quarter, 2008 WEQ EC VOTE: 3 rd Quarter, 2008 RATIFICATION: 3 rd Quarter, 2008	The ATC information list was posted for informal comment on January 22, 2008. 05-13-2008 - The BPS/ESS/ITS was directed by the EC to suspend activity on this item. ATC Information List has been assigned to a task force of the EC. Voted out of EC task force for formal comment period ending September 17, 2008. No action recommendation approved by WEQ EC on October 6, 2008. Commissioner Wellinghoff letter Draft recommendation posted for informal comments on June 17, 2008 Recommendation was voted out of subcommittee on July 9 th . Formal Comment period closes on August 11 th . Approved by WEQ EC August 19, 2008. Ratified by the membership on 9/22/2008.

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ESS/ITS ASSIGNMENTS				
	GROUP 0: REALES			
✓ 815, FN 496	<p>The OASIS business practices developed to align the existing NAESB standards with Order 890 will include the requirement that “all sales or assignments of capacity be conducted or otherwise posted on the transmission provider’s OASIS on or before the date the reassigned service commences.”</p> <p>The OASIS business practices will also conform to Footnote 496 of Order 890. The business practices will include the requirement that the assignee “execute a service agreement directly with the transmission provider.” In addition, the business practices will include the requirement that the assignee pay “the transmission provider for service at the negotiated rate and the transmission provider will bill or credit the assignor with any the difference between the negotiated rate and the assignor’s original rate.</p> <p>Order 890-A:</p> <p>394. Reforms to the rules governing reassignments and associated reporting obligations also increase our regulatory oversight of the secondary market, allowing the Commission to effectively monitor that market for any attempts to exercise market power. All reassignments must now be conducted through or otherwise posted on OASIS and assignees must execute service agreements prior to the date on which service commences. Transmission providers must provide information regarding reassignments in their EQRs. As noted above, Commission staff will also closely monitor the quarterly reassignment-related data submitted by transmission providers and prepare a report on staff’s findings for the Commission’s consideration. The Commission takes seriously the possibility that resellers may attempt to exercise market power in the secondary market for transmission capacity. We continue to believe, however, that the regulatory protections in place and our increased oversight of this market will limit the potential for market power abuse during the period in which the price cap is lifted. There is no need for particularized market power studies regarding secondary transmission capacity, as suggested by TAPS.</p> <p>408. As noted above, the Commission required in Order No. 890 that all sales or assignments of capacity be conducted through or otherwise posted on the transmission provider’s OASIS on or before the date the reassignment commences. The Commission thus eliminated the ability of transmission customers to assign transmission rights to another party with subsequent notification to the transmission provider. The Commission also directed transmission providers, working through NAESB, to develop appropriate OASIS functionality to allow such postings. Transmission providers were not required to implement this new OASIS functionality or any related business</p>	WEQ 2007 Annual Plan Item 2(a)(i)	<p>FORMAL COMMENT: Posted for formal comment April 5, 2007 with comments due on May 4, 2007.</p> <p>WEQ EC VOTE: The WEQ Executive Committee adopted a revised recommendation during the May 8, 2007 WEQ EC meeting.</p> <p>RATIFICATION: The recommendation, as revised by the WEQ Executive Committee was posted for member ratification on June 22, 2007 with ballots due on July 23, 2007. The ratification results are posted on the NAESB website.</p>	<p>Completed.</p> <p>The final action is posted on the NAESB WEQ Final Actions page: 2007 WEQ Annual Plan Item 2 Final Action - Recommendation for Revision to Final Action R04006D to align the Resales Standards with Order 890</p> <p>The Subcommittee believes the final action conforms with Order 890-A.</p>

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	<p>practices until NAESB develops appropriate standards.</p> <p>422. The Commission affirms the decision in Order No. 890 to require assignees to execute a service agreement with the transmission provider governing reassignments of transmission capacity prior to scheduling use of that capacity. We provide clarification of this requirement, however, in response to the concerns raised by petitioners. In Order No. 890, the Commission required that all reassignments be accomplished by the assignee executing a service agreement with the transmission provider that will govern the provision of reassigned service. The Commission did not intend to impose contracting obligations that are more onerous than the acquisition of primary transmission capacity, which may be accomplished through execution of a service agreement followed by scheduling on OASIS. We clarify that it is equally sufficient for an assignee to execute a service agreement governing its reassignments of capacity generally and to complete a particular assignment through the OASIS. However, as with reservations of primary transmission capacity, there remains a threshold requirement to execute a service agreement with the transmission provider in order to commit the assignee to abide by the terms and conditions of the transmission provider's OATT governing the reassignment of transmission service.</p> <p>423. It would not be appropriate to relieve assignees of the obligation to execute a service agreement with the transmission provider since such agreements establish the necessary contractual relationship between the assignee and the transmission provider. As we explain above, sales of reassigned capacity now take place under the transmission provider's OATT and, thus, there must be a contractual relationship between these parties. This does not mean, however, that all of the terms and conditions of a particular assignment must be stated in the service agreement. Like short-term firm and non-firm reservations of primary capacity, the transmission provider and assignee may rely on OASIS to provide information regarding the reseller, quantity, and price associated with a particular reassignment of service. This information would then become part of the binding agreement between the transmission provider and assignee governing the assignment, just as confirmation of short-term firm and non-firm transactions on OASIS constitute binding contractual commitments. Because execution of a service agreement with the transmission provider governing reassignments of capacity is a threshold requirement for an assignee wishing to accomplish a particular reassignment on OASIS, Bonneville's concern regarding the failure of an assignee to return its service agreement is misplaced. The assignee in that instance would have no right to schedule a reassignment on OASIS since it has not first executed the appropriate service agreement with the transmission provider.</p> <p>424. Some of the confusion regarding these contracting requirements may have been caused by the Commission's reference in section 23.1 of the revised pro forma OATT to</p>			

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	<p>a service agreement "that will govern the provision of reassigned service," which could be interpreted to refer to transaction-by-transaction service agreements for reassignments. Inclusion of the words "Long-Term Firm" in both the title of the form of service agreement and the attached specifications in the new Attachment A-1 to the pro forma OATT adopted in Order No. 890 may have added to the confusion by potentially implying that use of the service agreement is limited to long-term firm point-to-point transactions instead of also applying to short-term firm point-to-point and non-firm point-to-point reassignments, as intended by the Commission. We revise section 23.1 of the pro forma OATT and the title of Attachment A-1 to make clear that use of the form of service agreement for reassigned capacity, and associated posting of schedules and transaction information on OASIS, should be similar to the use of such agreements for primary capacity.</p> <p>425. The execution of a service agreement by the assignee does not itself terminate the reseller's service agreement, as EEI argues. The reseller's service agreement remains in place, granting the reseller scheduling rights for the reserved capacity and obligating the reseller to pay for that reservation. During the term of the assignment, the reseller will continue to be billed under its agreement with the transmission provider. The assignment of service simply transfers to the assignee some or all of the reseller's scheduling rights for the period of the reassignment and, in return, obligates the assignee to pay the transmission provider the negotiated rate. In order to prevent over-recovery by the transmission provider, the transmission provider must therefore credit the reseller the reassignment rate, which leaves the reseller with the net difference between the resale rate and the reseller's original rate. If the assignee defaults and fails to pay for the reassigned capacity, the transmission provider should reverse the credit to the reseller to reflect the lack of payment by the assignee.</p> <p>426. We disagree that these billing requirements are unduly burdensome. While it is true that the transmission provider may be required to bill at different rates, that is already the case under the pro forma OATT. Transmission providers are permitted to offer discounts from the rates stated in their OATT, provided they offer such discounts to all eligible customers. Offering discounts thus creates different rates for different customers depending on when they negotiate service. The transmission provider therefore should already have mechanisms in place to bill customers based on rates other than those stated in its OATT. In any event, the need to bill assignees directly for reassignments is inextricably linked to the decision to require that all reassignment transactions take place pursuant to the rate on file in the transmission provider's OATT, rather than bilateral agreements between customers. We therefore do not intend for the discount rule or the price ceilings otherwise stated in the transmission provider's OATT to apply to reassignments of capacity. We have revised schedules 7 and 8 of the pro</p>			

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	<p>forma OATT accordingly.</p> <p>427. We clarify that, to the extent necessary, the costs incurred by the transmission provider to account and bill for reassignments of transmission capacity should be included in the transmission provider's cost of service, just like accounting and billing costs for any other service under the transmission provider's OATT. We decline MidAmerican's request to prohibit further assignments of reassigned capacity. Order No. 888 allowed for multiple reassignments under the pro forma OATT and MidAmerican does not justify departing from this practice. Just as the original transmission customer may find that it has excess capacity it can reassign, so may an assignee. Denying the assignee's right to further assign its scheduling rights would inhibit customers who value the capacity most from accessing it and thereby contradict the Commission goal of creating a competitive secondary market for transmission capacity.</p> <p>428. With regard to OASIS modifications necessary to allow for the reassignment of transmission capacity, the Commission in Order No. 890 already directed transmission providers working through NAESB to develop appropriate OASIS functionality to allow for reassignment-related postings. We understand that this work is on-going and expect any necessary modifications to NAESB's business practices that are necessary to reflect our rulings in this order will be adopted prior to the submission of those standards for Commission review. In the interim, transmission providers should identify in their business practices any procedures necessary to accomplish the reassignment of capacity by their customers.</p>			
	GROUP 1: ANNOTATIONS FOR ATC; LOAD FORECAST AND ACTUAL LOAD; RE-BID OF PARTIAL SERVICE; PRECONFIRMATION PRIORITY; and CONDITIONAL FIRM			
	<p>Conditional Firm, Annotations For ATC; Load Forecast And Actual Load; Re-Bid Of Partial Service; And Preconfirmation Priority S&CP Requirements</p>	<p>WEQ 2008 Annual Plan Item 2(a)(i)(1)</p>	<p>FORMAL COMMENT: Sent during the 3rd Quarter 2007. WEQ EC VOTE: EC notational ballot due January 16, 2008. RATIFICATION: The ratification of the Recommendation will be completed during 1st Quarter 2008.</p>	<p>Split into individual items – see below</p>
✓ 1078	<p>Conditional Firm: In Paragraph 1078 of Order 890, the Commission directed transmission providers to "assign short-term firm service to conditional firm customers as the service becomes available." The Commission also directed transmission providers to work with NAESB to "develop the appropriate communications protocols to implement this attribute of conditional firm service." NAESB will develop OASIS</p>	<p>WEQ 2008 Annual Plan Item 2(a)(i)(2)</p>	<p>FORMAL COMMENT: 3rd Quarter, 2008 WEQ EC VOTE: 3rd Quarter, 2008 RATIFICATION: 3rd Quarter, 2008</p>	<p>Initial working paper of draft requirements to be posted in April 2008. On April 4, 2008, the</p>

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	<p>business practices (to complement the OASIS S&CPs developed in 2008 AP item 2(a)(i)(1)) that will implement the ability to assign short-term firm service to conditional firm customers.</p> <p>Development of communication protocols for conditional firm including tracking mechanism and regional variation. Need to review the tagging rules related to the use of conditional firm.</p> <p>Order 890-A:</p> <p>566. During non-conditional periods, conditional firm service is subject to pro rata curtailment consistent with curtailment of any other long-term firm service. During the hours or specific system conditions when conditional firm service is conditional, conditional firm service share the same curtailment priority as secondary network service. In such circumstances, transmission providers will be allowed to curtail only for reliability reasons and conditional firm customers during conditional curtailment hours will be curtailed only after all point-to-point non-firm customers have been curtailed. If the customer selects the annual hourly cap option, the transmission provider will have the flexibility to conditionally curtail the customer for any reliability reason during those hours, including but not limited to, the system condition(s) identified in the system impact study.</p> <p>567. The Commission provided that short-term firm service reserved prior to the reservation of conditional firm service will maintain priority over conditional firm service in the periods when conditional firm service is conditional, i.e., when specified system conditions exist or conditional curtailment hours apply. Transmission providers were directed to work with NAESB to develop the appropriate communications protocol to allow for automatic assignment of short-term firm point-to-point service to conditional firm customers to the extent short-term service becomes available. Transmission providers need not implement this requirement until NAESB develops appropriate communications protocols.</p> <p>569. Finally, the Commission recognized that there may be some regional variation in the way transmission providers approach the provision of conditional firm service beyond the minimum attributes that established in Order No. 890. The Commission directed transmission providers located in the same region to coordinate among themselves to develop business practices for implementation of the conditional firm service. In order to allow time for this regional coordination, the Commission directed transmission providers to implement these mechanisms and business practices within 180 days after the publication of this Final Rule in the Federal Register, or October 11, 2007.</p> <p>585. We also agree with MidAmerican that a transmission provider's waiver of a</p>	<p>Home</p>		<p>ESS/ITS voted to send this recommendation out for informal comments due April 11, 2008.</p> <p>Voted out of subcommittee for formal comment on June 24, 2008.</p> <p>Recommendation posted for 30-day formal comment period on June 25th.</p> <p>Approved by WEQ EC on August 8, 2008</p> <p>Ratified by the membership on 9/25/2008.</p>

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	<p>reassessment for conditional firm or planning redispach service does not constitute a waiver of all reassessments for the duration of the service, unless explicitly agreed to by the transmission provider. We reiterate, however, that only one reassessment may be performed in each two-year period of service. We also affirm that any waiver must be granted for similarly situated service, which would include conditional firm or planning redispach service that is limited because of the same constraints or general system limitations. Such a waiver would be an act of discretion that must be posted on OASIS. Waiver of the reassessment presents an opportunity for discrimination among classes of customers on the part of the transmission provider and posting will provide eligible customers with an indicator of how often conditions or redispach requirements have been reassessed. Transmission providers are directed to develop uniform OASIS posting standards, in coordination with NAESB, for transmission providers to post information regarding waivers of the biennial reassessment for planning redispach and conditional firm service.</p>			
✓ 369	<p>Annotations for ATC: OASIS Business Practice Standards (to complement the OASIS S&CPs developed in 2008 AP item 2(a)(i)(1)) that will “require that the transmission provider post a brief, but specific, narrative explanation of the reason for a change in monthly and yearly ATC values on a constrained path.” The posting requirements will include posting of “(1) specific events which gave rise to the change and (2) new values for ATC on that path (as opposed to all points on the network).”</p>	WEQ 2008 Annual Plan Item 2(a)(i)(3)	<p>FORMAL COMMENT: 1st Quarter, 2008 WEQ EC VOTE: 2nd Quarter, 2008 RATIFICATION: 2nd Quarter, 2008</p>	<p>Assigned to BPS/ESS/ITS (see above BPS/ESS/ITS item that reference WEQ 2008 AP Item 2(b)(v)(3)). Voted out of subcommittee for formal comment on February 13, 2008. Approved by the EC via notational ballot on April 14th. Membership ratification to be completed by May 16th. Ratified by the membership on 5/16/2008.</p>
✓ 416	<p>Load Forecast and Actual Load: OASIS Business Practice Standards (to complement the OASIS S&CPs developed in 2008 AP item 2(a)(i)(1)) for the posting of “load forecasts and actual daily peak load for both system-wide load (including native load) and native load.” Order 890-B: 35. We clarify, however, that the Commission intended for transmission providers to post the underlying factors used to make load forecasts that have a significant impact on calculations, such as temperature forecasts, not all economic and other data that</p>	WEQ 2008 Annual Plan Item 2(a)(i)(4)	<p>FORMAL COMMENT: 2nd Quarter, 2008 WEQ EC VOTE: 2nd Quarter, 2008 RATIFICATION: 2nd Quarter, 2008</p>	<p>Assigned to BPS/ESS/ITS (see above BPS/ESS/ITS item that reference WEQ 2008 AP Items 2(b)(v)(4) and (5)). Voted out of subcommittee for formal comment on March 10, 2008.</p>

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✓	<p>underlies each and every daily load forecast. Transmission providers must post a description of their load forecast method including how economic and weather assumptions are used in load forecasting. The Commission's intent is to increase transparency in the transmission provider's process of forecasting, providing assurance to customers that loads are consistently being forecast using methodologies which are not subject to daily manipulation to favor affiliates.</p> <p>Re-bid of Partial Service: OASIS Business practice standards (to complement the OASIS S&CPs developed in 2008 AP item 2(a)(i)(1)) for re-bid of partial service across a single Transmission Provider's system.</p>	WEQ 2008 Annual Plan Item 2(a)(i)(5)	<p>FORMAL COMMENT: 1st Quarter, 2008 WEQ EC VOTE: 1st Quarter, 2008 RATIFICATION: 1st Quarter, 2008</p>	<p>Approved by the EC via notational ballot on April 23rd. Membership ratification completed on July 23rd.</p> <p>Voted out of subcommittee for formal comment on 2/12/2008. WEQ EC adopted the recommendation on May 13. Membership ratification to be completed by June 23rd. Recommendation was ratified by the membership on June 23rd.</p>
✓	<p>Pre-confirmation Priority: Development of OASIS business practice standards (to complement the OASIS S&CPs developed in 2008 AP item 2(a)(i)(1)) to prohibit "transmission customers from changing a request into a pre-confirmed request and requiring OASIS platforms to be accessible on non-Windows/Explorer computers." Pre-confirmation Priority: Development of OASIS Business Practice Standards and OASIS S&CPs so that "pre-confirmed non-firm point-to-point transmission service requests and short-term firm point-to-point transmission service requests" have priority though "longer duration requests for transmission service will continue to have priority over shorter duration requests for transmission service." The standards will be written such that pre-confirmation will serve as a "tie-breaker" when the requests are of equal duration.</p>	WEQ 2008 Annual Plan Item 2(a)(i)(6)	<p>FORMAL COMMENT: 1st Quarter, 2008 WEQ EC VOTE: 1st Quarter, 2008 RATIFICATION: 1st Quarter, 2008</p>	<p>Voted out of subcommittee for formal comment on 2/12/2008. WEQ EC adopted the recommendation on May 13. Membership ratification to be completed by June 23rd. Recommendation was ratified by the membership on June 23rd.</p>
✓	<p>Appendix C – OASIS Exemptions</p>	WEQ 2008 Annual Plan Item 2(a)(i)(7)	<p>FORMAL COMMENT: Voted out of subcommittee 12/17/2007. Formal Comment period 12/19/2007 through 1/19/2008. WEQ EC VOTE: Approved February 4, 2008 RATIFICATION: Ratification</p>	<p>Ratified by the membership on 3/13/2008.</p>

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	GROUP 2: METRICS; REDISPATCH COST POSTING			
✓ 413	<p>Metrics: Business Practice standards s to “post on OASIS metrics related to the provision of transmission service under the OATT” including the posting of:</p> <ul style="list-style-type: none"> • “the number of affiliate versus non-affiliate requests for transmission service that have been rejected”; • “the number for affiliate versus non-affiliate requests for transmission service that have been made”; <p>These standards will also set forth in the above referenced posting requirements the length of the service request and the type of the service requested.</p>	WEQ 2008 Annual Plan Item 2(a)(ii)(1)	<p>FORMAL COMMENT: 1st Quarter, 2008</p> <p>WEQ EC VOTE: 1st Quarter, 2008</p> <p>RATIFICATION: 1st Quarter, 2008</p>	<p>Voted out of subcommittee for formal comment on 2/12/2008.</p> <p>WEQ EC adopted the recommendation on May 13.</p> <p>Membership ratification to be completed by June 23rd.</p> <p>Recommendation was ratified by the membership on June 23rd</p>
✓ 1318	<p>Metrics: OASIS business practice standards to implement the standard performance (planning study) metrics set forth in Order 890, Paragraphs 1308-1317.</p>	WEQ 2008 Annual Plan Item 2(a)(ii)(2)	<p>FORMAL COMMENT: 1st Quarter, 2008</p> <p>WEQ EC VOTE: 1st Quarter, 2008</p> <p>RATIFICATION: 1st Quarter, 2008</p>	<p>Voted out of subcommittee for formal comment on 2/12/2008.</p> <p>WEQ EC adopted the recommendation on May 13.</p> <p>Membership ratification to be completed by June 23rd.</p> <p>Recommendation was ratified by the membership on June 23rd</p>
✓ 1162	<p>Redispatch Cost Posting: Business practices for redispatch cost postings:</p> <ul style="list-style-type: none"> • The posting of redispatch information will also include the posting of each transmission provider’s “monthly average cost of redispatch for each internal congested transmission facility or interface over which it provides redispatch service using planning redispatch or reliability redispatch under the pro forma OATT.” • The business practice standards for redispatch cost postings will also include functionality for transmission providers to post “a high and low redispatch for the month” each internal congested transmission facility or interface over which it provides redispatch service. 	WEQ 2008 Annual Plan Item 2(a)(ii)(3)	<p>FORMAL COMMENT: 1st Quarter, 2008</p> <p>WEQ EC VOTE: 1st Quarter, 2008</p> <p>RATIFICATION: 1st Quarter, 2008</p>	<p>Voted out of subcommittee for formal comment on 2/12/2008.</p> <p>WEQ EC adopted the recommendation on May 13.</p> <p>Membership ratification to be completed by June 23rd.</p> <p>Recommendation was ratified by the membership on June 23rd</p>

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	<p>Order 890-A:</p> <p>621. Transmission providers must post internal constraint or interface data for the month if any planning redispatch or reliability redispatch is provided during the month, regardless of whether the transmission customer is required to reimburse the transmission provider for those exact costs. Thus, if the transmission customer pays for planning redispatch pursuant to a negotiated fixed rate, the transmission provider is required to post and calculate the monthly average redispatch costs and the high and low costs in the month even though the transmission provider will bill the customer the fixed rate. The same posting requirement applies if the customer is paying a monthly "higher of" rate. The Commission concluded that the relevant reliability redispatch costs for posting purposes are those costs the transmission provider invoices network customers based on a load ratio share pursuant to section 33.3 of the pro forma OATT. The transmission provider must post this data on OASIS as soon as practical after the end of each month, but no later than when it sends invoices to transmission customers for redispatch-related services. The Commission directed transmission providers to work in conjunction with NAESB to develop this new OASIS functionality and any necessary business practice standards.</p>			on June 23 rd
GROUP 3: NETWORK SERVICE ON OASIS				
I 385	<p>Development of OASIS business practice standards and OASIS S&CPs for "transmission providers and network customers to use OASIS to request designation of new network resources and to terminate designation of network resources." Shall be posted on OASIS for 90 days and available for audit for a 5 year period.</p>	<p>WEQ 2009 Annual Plan Item 2(a)(i)(1) See also WEQ 2009 Annual Plan items 2(b)(i)(1) and 3(a)(i)</p>	<p>FORMAL COMMENT: 4th Quarter, 2009 WEQ EC VOTE: 2010 RATIFICATION: 2010</p>	<p>Concept Paper posted 11/7/2007. Concepts discussions continued 1st Quarter 2009.</p>
I 385	<p>The standards will include the ability to electronically query requests to designate and terminate network resources and will require development of OASIS templates and to allow for queries of all information provided with designation requests.</p> <p>Order 890-B:</p> <p>209. We also conclude that concerns regarding the ability to verify or monitor the buyer's decision to designate a purchase of system power as a network resource are overstated in light of the clarification that the buyer and seller must be on the same transmission system. In Order No. 890, the Commission directed transmission providers, working through NERC, to develop OASIS functionality for the designation of network resources and for queries of information provided with designation requests.</p>	<p>WEQ 2009 Annual Plan Item 2(a)(i)(2) See also WEQ 2009 Annual Plan items 2(b)(i)(1) and 3(a)(i)</p>	<p>FORMAL COMMENT: 4th Quarter, 2009 WEQ EC VOTE: 2010 RATIFICATION: 2010</p>	<p>Concept Paper posted 11/7/2007. Concepts discussions continued 1st Quarter 2009.</p>

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		Parties to a sale of system power on the same transmission system will therefore have ready access to the treatment of the resource. Sellers also may rely on commitments made by the buyer to designate the purchase as a network resource.			
I	1477	The standards will include the ability to mask information "about operating restrictions and generating cost on OASIS"	WEQ 2009 Annual Plan Item 2(a)(i)(3) See also WEQ 2009 Annual Plan items 2(b)(i)(1) and 3(a)(i)	FORMAL COMMENT: 4 th Quarter, 2009 WEQ EC VOTE: 2010 RATIFICATION: 2010	Concept Paper posted 11/7/2007. Concepts discussions continued 1 st Quarter 2009.
I	1477	Development of OASIS business practice standards and OASIS S&CPs that describe the procedural requirements for submitting designations over any new OASIS functionality. Order 890-A: 919. The Commission clarifies, in response to South Carolina E&G's request, that the language in paragraph 1521 of Order No. 890 is only meant to be a paraphrase of the more detailed attestation to be provided in the pro forma OATT itself. A network customer designating network resources should submit an attestation using the language set forth in sections 29.2(viii) and 30.2 of the pro forma OATT, as amended in Order No. 890, not the language of the preamble. A network customer is not permitted to merely reference the applicable section of the pro forma OATT when completing the attestation requirement. If the OASIS customer comment section does not currently allow enough space for a network customer to provide its attestation, transmission providers should modify, in coordination with NAESB, OASIS functionality to accommodate the full attestation. In the interim, the transmission provider should identify alternate means, such as by telefax or e-mail, for the network customer to provide the attestation.	WEQ 2009 Annual Plan Item 2(a)(i)(4) See also WEQ 2009 Annual Plan items 2(b)(i)(1) and 3(a)(i)	FORMAL COMMENT: 4 th Quarter, 2009 WEQ EC VOTE: 2010 RATIFICATION: 2010	Concept Paper posted 11/7/2007. Concepts discussions continued 1 st Quarter 2009.
I	1504	Development of OASIS business practice standards and OASIS S&CPs to specify how designated network service informational postings are posted on OASIS . Develop details of how the view, download, and query requirements for information posted regarding network resource designations informational postings.	WEQ 2009 Annual Plan Item 2(a)(i)(5) See also WEQ 2009 Annual Plan items 2(b)(i)(1) and 3(a)(i)	FORMAL COMMENT: 4 th Quarter, 2009 WEQ EC VOTE: 2010 RATIFICATION: 2010	Concept Paper posted 11/7/2007. Concepts discussions continued 1 st Quarter 2009.

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I 1532	<p>Development of OASIS business practice standards and OASIS S&CPs to set forth the "treatment of OASIS requests when the customer fails to provide the necessary attestation," when submitting a request to designate a new network resource.</p> <p>Attestation: Formatting of attestation information that will be provided on OASIS.</p> <p>Order 890-B:</p> <p>182. The Commission grants rehearing to more accurately state the requirement to provide an attestation supporting the designation of network resources pursuant to sections 29.2(viii) and 30.2 of the pro forma OATT. In order to designate a network resource, section 30.7 of the Order No. 888 pro forma OATT required each network customer to demonstrate that (i) it owns or has committed to purchase generation pursuant to an executed contract or (ii) execution of a contract is contingent upon the availability of transmission service in order to designate a generating resource. In Order No. 890, the Commission adopted the attestation requirement as the means by which the network customer can make this demonstration, revising sections 29.2 and 30.2 accordingly. We affirm this requirement, consistent with the network customer's obligations under section 30.7, and grant rehearing of the Commission's statements in this proceeding indicating that the attestation can instead be submitted at the time a resource designation is confirmed, rather than requested.</p> <p>183. We disagree with NRECA and TDU Systems that a customer submitting an attestation pursuant to section 29.2(viii) or 30.2 of the pro forma OATT must commit to purchase the resources for which designation is requested irrespective of the outcome of the network service request. Consistent with section 30.7, a network customer may attest that execution of a contract is contingent upon the availability of transmission service under Part III of the pro forma OATT. Network customers are therefore not required to commit to purchasing a resource prior to submitting a request to designate that resource.</p>	<p>WEQ 2009 Annual Plan Item 2(a)(i)(6)</p> <p>See also WEQ 2009 Annual Plan items 2(b)(i)(1) and 3(a)(i)</p>	<p>FORMAL COMMENT: 4th Quarter, 2009</p> <p>WEQ EC VOTE: 2010</p> <p>RATIFICATION: 2010</p>	<p>Concept Paper posted 11/7/2007.</p> <p>Concepts discussions continued 1st Quarter 2009.</p>
I 1541	<p>Development of OASIS business practice standards and OASIS S&CPs to describe "the procedural requirements for submitting both temporary and indefinite terminations of network resources, to allow network customers to provide all required information for such terminations." These business practice standards will include the functionality set forth in Order 890, Paragraph 1541.</p>	<p>WEQ 2009 Annual Plan Item 2(a)(i)(7)</p> <p>See also WEQ 2009 Annual Plan items 2(b)(i)(1) and 3(a)(i)</p>	<p>FORMAL COMMENT: 4th Quarter, 2009</p> <p>WEQ EC VOTE: 2010</p> <p>RATIFICATION: 2010</p>	<p>Concept Paper posted 11/7/2007.</p> <p>Concepts discussions continued 1st Quarter 2009.</p>
I 1541	<p>Development of OASIS business practice standards and OASIS S&CPs to describe "the procedures for submitting and processing requests for concomitant evaluations of</p>	<p>WEQ 2009 Annual Plan</p>	<p>FORMAL COMMENT: 4th Quarter, 2009</p>	<p>Concept Paper posted 11/7/2007.</p>

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	<p>transmission requests and temporary terminations.</p> <p>Order 890-B: 188. In Order No. 890, the Commission directed transmission providers to evaluate as a single request a request for temporary undesignation and related requests for transmission service. Transmission providers were therefore directed to develop, working through NAESB, business practices allowing for electronic identification of related transmission service requests to be evaluated concomitantly with the request for temporary undesignation. This was appropriate in light of the Commission's decision to allow network customers to temporarily undesignate their network resources without forfeiting the right to use the resource at a specified point in the future, provided they pair the temporary undesignation with a request to redesignate the resource.</p> <p>189. We find that similar procedures for permanent undesignations of network resources are unnecessary given the transmission provider's obligation to consider clustering transmission service requests at the request of customers. If a network customer or the transmission provider's merchant function wishes for the transmission provider to take into consideration the effect of a request to terminate a network resource on a concomitant request to designate another network resource, it may request the transmission provider to cluster the requests. As TransServ acknowledges, this will not alter the priority of the network customer or the transmission provider's merchant function with regard to any ATC that may be made available by undesignating the network resource.</p>	<p>Item 2(a)(i)(8) See also WEQ 2009 Annual Plan items 2(b)(i)(1) and 3(a)(i)</p>	<p>WEQ EC VOTE: 2010 RATIFICATION: 2010</p>	<p>Concepts discussions continued 1st Quarter 2009.</p>
GROUP 4: PRE-EMPTION; REQUEST R05019; and REVISIONS TO STANDARD 9.7				
N S	<p>Pre-emption: Revise OASIS business practice standards and OASIS S&CPs so that "a new pre-confirmed request for transmission service would preempt a request of equal duration that has been accepted by the transmission provider but not yet confirmed by the transmission customer." It is the expectation that the business practice standards to address preemption will be developed in conjunction with NAESB Request No. R05019 to modify OASIS standards and OASIS S&CPs to clearly document the procedures used to implement the displacement/interruption terms of the Pro Forma tariff.</p> <p>This is consistent with NAESB Standard WEQ 001-4.25.</p> <p>Order 890-A: 814. The Commission affirms the decision in Order No. 890 not to change the "first-come, first served" nature of the reservation process and the right of first refusal. These policies have worked well in the past and, as we explain in Order No. 890, benefit transmission providers and customers alike by facilitating the administration of the reservation process and removing confusion about how to comply.</p>	<p>WEQ 2009 Annual Plan Item 2(a)(ii)(1)</p>	<p>REQUEST FOR RECONSIDERATION PENDING AT FERC MAY IMPACT TARGET DATES. FORMAL COMMENT: 4th Quarter, 2009 WEQ EC VOTE: 2010 RATIFICATION: 2010</p>	<p>Not Started</p>

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	<p>815. We disagree with Duke and TransServ that the right of first refusal policies should be revised based on complex hypotheticals involving the preemption of multiple short-term reservations. The complexities pointed to by these commenters do not by themselves warrant changing the right of first refusal rule. Even though we recognize the potential for complexities to arise under the right of first refusal rule, we believe them to be relatively limited. In the off-chance that multiple eligible customers with short-term reservations choose to exercise their right of first refusal for the same capacity simultaneously, the Commission believes that they should have a right to do so.</p> <p>816. We therefore decline to expand upon the language of the pro forma OATT to account for every factual scenario that could arise under sections 13.2 and 14.2 of the pro forma OATT. Sections 13.2 and 14.2 of the pro forma OATT set forth adequate guidance for transmission providers to fairly administer competing requests, including the priorities for determining which reservations or requests trump one another as well as the timeframes for eligible customers to respond to competing requests. As noted above, we recognize that certain unique cases can present difficult allocation issues, but conclude that these extreme cases arise infrequently in the normal course of business. In the vast majority of cases, we believe the right of first refusal rules are efficient and easy to administer without further amending the governing tariff language, as Bonneville and Southern suggest.</p> <p>817. To the extent necessary, the Commission clarifies that a “competing request” under sections 13.2 and 14.2 of the pro forma OATT may include a transmission service request that overlaps with only part of another existing transmission service reservation since both requests cannot be granted simultaneously. Accordingly, a “competing request” for purposes of sections 13.2 and 14.2 may also include a transmission service request for which transmission capacity cannot be accommodated without preempting one or more existing transmission reservations of parts thereof.</p> <p>818. In response to TransServ and Duke, we clarify that sections 13.2 and 14.2 allow an eligible customer to retain its original reservation by matching the competing service request’s cost or duration terms exactly or by exceeding one or more of the terms of a competing transmission service request. Since any “match” by an eligible customer in response to a potentially preempting request, by definition, either exceeds the costs, duration or both of the eligible customer’s original reservation, we do not believe eligible customers opting to match a competing request have a strong incentive, if any, to “match” a competing request with terms that exceed the competing request. Nevertheless, we do not see any harm resulting from a match that exceeds the exact terms of a competing request and therefore believe it would not be appropriate to preclude the ability of eligible customers to make such a request.</p> <p>819. With regard to reassignments of capacity in the secondary market, we clarify that</p>			

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		<p>the associated right of first refusal under sections 13.2 and 14.2 of the pro forma OATT to match a competing transmission service request applies to the primary transmission service, not the reassignment of scheduling rights. Using TranServ's example, the reassignment of one day of a customer's weekly service would not cause the assignor or the assignee to match a competing three day request for service since the initial one week reservation already exceeded the competing request. The fact that one day of service has been reassigned does not alter the assignor's entitlement to use service for the remaining week reserved.</p> <p>Order 890-B: 161. The Commission declines to address in this rulemaking proceeding how transmission providers should resolve complicated and fact-specific scenarios such as the cascading rights of first refusal described by Duke. Sections 13.2 and 14.2 of the <u>pro forma OATT</u> provide adequate guidance for transmission providers to fairly administer the vast majority of competing requests, including priorities for determining which reservations or requests trump one another as well as the timeframes for eligible customers to respond to competing requests. As the Commission explained in Order No. 890-A, we expect that more complex circumstances such as those suggested by Duke will be relatively limited and, therefore, are best addressed on a case-by-case basis. Transmission providers remain free, however, to develop through the NAESB process standard procedures for processing complicated request scenarios.</p>			
N S		<p>NAESB Request No. R05019: During the work to address FERC Order 890, the ESS/ITS will also use the opportunity to modify OASIS standards and S&CP to clearly document the procedures used to implement the displacement/interruption terms of the Pro Forma tariff as requested in NAESB Request No. R05019</p>	<p>WEQ 2009 Annual Plan Item 2(a)(ii)(2) See also WEQ 2009 Annual Plan Item 3(a)(iii)</p>	<p>REQUEST FOR RECONSIDERATION PENDING AT FERC MAY IMPACT TARGET DATES. FORMAL COMMENT: 4th Quarter, 2009 WEQ EC VOTE: 2010 RATIFICATION: 2010</p>	Not Started
C	1269	<p>Revisions to Standard 001-9.7: NAESB will continue to work to revise NAESB WEQ business practice standard WEQ 001-9.7 (which addresses rollover rights for Redirected transmission service) to be consistent with the Commission's policies.</p> <p>Order 890-A: 697. Pursuant to Section 22 of the pro forma OATT, a transmission customer taking firm point-to-point service may modify its receipt and delivery points, i.e., redirect its service, on either a non-firm or firm basis. In Order No. 676, the Commission adopted the "Standards for Business Practices and Communication Protocols for Public Utilities"</p>	<p>WEQ 2009 Annual Plan Item 2(a)(ii)(3)</p>	<p>FORMAL COMMENT: 1st Quarter, 2009 WEQ EC VOTE: 2nd Quarter, 2009 RATIFICATION: 2nd Quarter, 2009</p>	<p>On February 11-12, 2008, the ESS/ITS voted to send this recommendation out for informal comments due March 25, 2008. November 4, 2008 WEQ EC Task Force created January 8, 2009 EC Task</p>

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	<p>developed by the NAESB's Wholesale Electric Quadrant (WEQ). The WEQ standards include standards addressing requirements for redirects on both a firm and non-firm basis, all of which were incorporated by reference into the Commission's regulations except for WEQ Standard 001-9.7, which addressed the impact of redirects on the rollover rights of a long-term transmission customer. Order No. 676 directed the WEQ to reconsider WEQ Standard 001-9.7 and develop a revised standard consistent with Commission policy.</p> <p>698. In Order No. 890, the Commission affirmed reliance on the NAESB process to develop business practices implementing the Commission's redirect policy. The Commission also determined that the reforms adopted in Order No. 676, in combination with the OATT-related reforms adopted in this proceeding, were adequate to ensure that transmission providers do not engage in undue discrimination when a customer seeks to modify its receipt and delivery points on a firm basis. With respect to the effect of redirects on rollover rights, the Commission affirmed its policy allowing a redirect of a firm, long-term service to retain rollover rights, even if the redirect is requested for a shorter period. The Commission concluded that a transmission customer should not have to choose between maintaining its rollover rights and redirecting on a firm basis. The Commission noted, however, that any change to a delivery point would be treated as a new request for service for purposes of determining availability of capacity. As a result, a redirect right does not grant the customer access to system capacity or queue position different from other customers submitting new requests for service. The Commission also provided guidance regarding the processing of, and pricing for, redirected service.</p> <p>700. If the Commission decides to maintain rollover rights for redirects, MISO proposes the following limitations and requests the Commission to direct NAESB to draft its business practices accordingly. First, MISO suggests that the primary path agreement should have a term of at least five years for any rollover rights to attach. Second, MISO requests that any redirect must be for firm service for one year or longer. If the redirect is for a shorter period, MISO contends that the rollover rights should remain with the original path. Third, MISO requests redirected service to terminate on the same date as the parent service so as to maintain the timing for execution of rollover rights. Finally, MISO suggests that in order to execute a rollover right the redirected service must be requested and granted prior to the one-year deadline for the customer to request rollovers along the original path.</p> <p>702. TranServ also requests clarification regarding the requirement for the rollover right to follow the redirect, regardless of the duration of the redirect. TranServ questions whether a redirect of a long-term firm service reservation for one day qualifies that customer for rollover rights on the redirected service points. TranServ suggests that the</p>			<p>Force conference call with FERC Staff February 3, 2009 WEQ EC remanded to ESS-ITS February 4, 2009 ESS-ITS began reconsidering.</p>

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	<p>Commission instead restrict rollover rights on redirected service points to redirects of five years or longer and further require that the redirect be co-terminus with the original request being redirected. TransServ argues that more guidance regarding implementation of the rollover and redirect policies will facilitate the NAESB standards development process.</p> <p>704. The Commission denies petitioners' requests to amend the rights of rollover customers to redirect their service. Under section 22.2 of the pro forma OATT, a request for a firm redirect must be treated like a request for new transmission service. As a new request for service, each redirect request is subject to the availability of capacity and subject to the possibility that the transmission provider may not be able to provide rollover rights on the new redirected path. The transmission provider is required to offer rollover rights to a customer requesting a firm redirect only if rollover rights are available on the redirected path, i.e., to the extent not restricted based on reasonable forecasts of native load growth or preexisting contracts that commence in the future.</p> <p>705. As the Commission explained in Order No. 890, rollover rights follow the redirect regardless of the duration of the redirect. A transmission customer making a firm redirect request does not convert its original long-term firm transmission service agreement into two short-term service agreements, nor does it lose its rollover rights under its long-term firm transmission service agreement. At the same time, a customer can exercise its rollover right only at the end of the contract. Thus, if a customer with rollover rights chooses to redirect its capacity for less than the full remaining term of the contract, absent some further request to redirect, the original path will automatically be reinstated and rollover rights would remain on only the original path. By contrast, if the customer chooses to redirect its capacity until the end of its contract, the customer would have rollover rights along only the redirected path, and only to the extent not restricted based on native load growth or future contracts along the redirected path.</p> <p>706. We therefore reject requests to restrict rollover rights to longer-term redirects. A long-term transmission customer may request multiple, successive redirects for firm service. This discretion is limited by the fact that each successive request is treated as a new request for service in accordance with section 17 of the pro forma OATT. Each request is therefore subject to the availability of capacity and subject to the possibility that the transmission provider may not be able to provide rollover rights on the new, redirected path. If the customer has not been granted rollover rights for a redirect that extends to the end of its contract, the redirected service will terminate on the same date as the parent service.</p> <p>707. We also reiterate that a customer cannot exercise any rollover rights unless it first has provided the appropriate notice to the transmission provider. If a customer requests and is granted a rollover right prior to the relevant notice deadline (60 days for pre-Order</p>			

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		<p>No. 890 agreements or one year for all others) and subsequently requests and is granted a redirect for firm service for the remainder of the contract term (i.e., within the notice period), the new reservation governs the rights at the new receipt and delivery points and the customer can obtain rollover rights with respect to the redirected capacity to the extent rollover rights are available for the redirected points. If, however, a customer fails to request a rollover right prior to the relevant notice deadline, the customer forfeits rollover rights along the current or any redirected path.</p> <p>708. We clarify, to the extent necessary, that transfer capability is not freed up for earlier queued service requests until a redirect has been granted. A redirect request must be evaluated in accordance with section 17 of the pro forma OATT using the same system assumptions and analysis applicable to any other new request for service, including whether sufficient ATC exists to accommodate the request. If there is insufficient ATC to offer service to customers in the queue, and an existing customer requests redirected service, any increase in ATC along the original path is contingent upon the acceptance and confirmation of the redirect. It cannot be assumed at the time of a redirect request that the transmission provider will grant the request.</p>			
		GROUP 5: PARAGRAPH 1377			
N	1377	<p>NAESB will develop business practice standards to facilitate the coordination of requests across multiple transmission systems using the principles set forth in Paragraph 1377 of Order 890.</p> <p>Develop S&CPs related to coordination of request across multiple transmission systems.</p> <p>Order 890-A:</p> <p>762. The Commission also required transmission providers working through NAESB to develop business practice standards to better coordinate transmission requests across multiple transmission systems. In order to provide guidance to NAESB, the Commission articulated the principles that should govern processing across multiple systems. The Commission further required transmission providers working through NAESB to develop business practice standards to allow a transmission customer to rebid a counteroffer of partial service so the transmission customer can take the same quantity of service for linked transmission service requests across multiple systems. The Commission explained that the transmission customer should not be required to take the same quantity of service across consecutive transmission service requests and, instead, it should simply have the option to do so.</p> <p>766. The Commission affirms the decision in Order No. 890 to rely on the NAESB process to develop business practices to govern the processing of transmission requests across multiple transmission systems. We decline to dictate at this time, beyond those</p>	WEQ 2009 Annual Plan Item 2(a)(iii)(1)	<p>FORMAL COMMENT: 4th Quarter, 2009</p> <p>WEQ EC VOTE: 2010</p> <p>RATIFICATION: 2010</p>	Not Started

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	principles outlined in Order No. 890, the particular practices that must be implemented. It is more appropriate to allow transmission providers working through NAESB, in the first instance, to consider how best to ensure coordination across multiple systems. It is also appropriate to give NAESB an open timeframe to develop these standards since they must be broad enough to account for the complexities of coordinating multi-system transmission service requests.			
N S 1378	Re-bid of Partial Service: OASIS Business practice standards for re-bid of partial service across multiple Transmission Providers' systems. NAESB will develop business practice standards to "allow a transmission customer to rebid a counteroffer of partial service so the transmission customer is allowed to take the same quantity of service across all linked transmission service requests.	WEQ 2008 Annual Plan Item 2(a)(iii)(2)	FORMAL COMMENT: 4 th Quarter, 2009 WEQ EC VOTE: 2010 RATIFICATION: 2010	Not Started
GROUP 6: MISCELLANEOUS				
N S 1390	NAESB plans to review the existing business functions set forth in the NAESB WEQ standards to determine if changes should be made to address Paragraph 1390 of Order 890. FERC: OATT is sufficient to allow a Transmission Provider to manage situations where the Transmission Customer modifies its application for service to the point that the request is "meaningfully different" than initial request. ESS/ITS: need to review if this has any impact on business functions.	WEQ 2008 Annual Plan Item 2(a)(iv)(1)	FORMAL COMMENT: 4 th Quarter, 2009 WEQ EC VOTE: 2010 RATIFICATION: 2010	Not Started
N S 1627	Development of OASIS business practice standards and OASIS S&CPs for "the posting of additional curtailment information on OASIS" via a "detailed template for the posting of additional information on OASIS regarding firm transmission curtailments." Posting of curtailment information on OASIS: develop a detailed template for the posting of additional information on OASIS regarding firm transmission curtailments. Order 890-A: 973. The Commission did not propose in the NOPR, or adopt in Order No. 890, any changes to the terms and conditions under which a transmission provider may curtail service to maintain reliable operation of the grid, as set forth in sections 13.6 and 14.7 for point-to-point service and section 33 for network service. The Commission did, however, conclude that the posting of additional curtailment information is necessary to provide transparency and allow customers to determine whether they have been treated in the same manner as other transmission system users, including customers of the transmission provider. Accordingly, the Commission required transmission providers, working through NAESB, to develop a detailed template for the posting of additional information on OASIS regarding firm transmission curtailments, including all	WEQ 2008 Annual Plan Item 2(a)(iv)(2)	FORMAL COMMENT: 4 th Quarter, 2009 WEQ EC VOTE: 2010 RATIFICATION: 2010	Not Started

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1005	<p>circumstances and events contributing to the need for a firm service curtailment, specific services and customers curtailed (including the transmission provider's own retail loads), and the duration of the curtailment.</p> <p>Redispatch Cost Posting: Business practices for redispatch cost postings:</p> <p>The business practice standards for redispatch cost postings will include OASIS business practices and any needed additions or revisions to the OASIS Standards & Communication Protocols (S&CPs) to allow for posting of third party offers of planning redispatch services. The business practice standards developed for redispatch cost postings may affect the existing NAESB business practice standards for Transmission Loading Relief. (moved from Group 2)</p> <p>Order 890-A:</p> <p>568. Transmission providers also were directed to work with customers to facilitate the use of third party generation, where available, in provision of planning redispatch. To facilitate provision of redispatch service by third parties, the Commission further directed transmission providers, working through NAESB, to modify their OASIS sites and develop any necessary business practices to allow for posting of third party offers to provide planning redispatch. Again, transmission providers were not required to implement the new OASIS functionality and any related business practices until NAESB develops appropriate standards.</p> <p>Order 890-B:</p> <p>131. In Order No. 890, the Commission directed transmission providers to modify their OASIS sites to allow for posting of third-party offers for planning redispatch and to work with NAESB to develop the OASIS functionality and any necessary business practice standards to allow for third-party planning redispatch. The Commission noted that provision of third party planning redispatch required coordination between the customer, transmission provider and reliability coordinator, but determined that the customer bears the burden to ensure that the necessary contractual and technical arrangements are in place to maintain reliability.</p>	<p>WEQ 2008 Annual Plan Item 2(a)(iv)(3)</p>	<p>FORMAL COMMENT: 4th Quarter, 2009 WEQ EC VOTE: 2010 RATIFICATION: 2010</p>	<p>Not Started</p>
✓ 243-244	<p>Posting of ETC: OASIS business practice standards and S&CPs necessary to implement the Business Practice Standards developed to complement NERC Reliability Standards for Existing Transmission Commitment (ETC) to create a "consistent approach for determining the amount of transfer capability a transmission provider may set aside for its native load and other committed uses", including the elements of ETC for full implementation of the NERC MOD-001 reliability standard. (moved from Group 1)*</p> <p>*Requirements for a "consistent approach for determining the amount of transfer</p>	<p>WEQ 2008 Annual Plan Item 2(a)(vi)(4) and 2(a)(iv)(4)</p>	<p>FORMAL COMMENT: 2nd Quarter, 2008 WEQ EC VOTE: 3rd Quarter, 2008 RATIFICATION: 3rd Quarter, 2008</p>	<p>Started May 15, 2008. Task has been reassigned to BPS/ESS/ITS. Recommendation was voted out of subcommittee on June 17, 2008. Formal comment period</p>

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	capability a transmission provider may set aside for its native load and other committed uses" is assigned to BPS/ESS/ITS (see above BPS/ESS/ITS item that references WEQ 2008 AP Items 2(b)(ii)(2)).			closes on July 21, 2008. Approved by WEQ EC August 19, 2008. Ratified by the membership on 9/22/2008.
	GROUP 7: Tagging for Conditional Firm Service, Submittal Windows			
✓	<p>Tagging for CFS: Within 180 days of Order 890-A publication, develop tracking capabilities and business practices for tagging for implementation of conditional firm service.</p> <p>Order 890-A: 592. We agree with petitioners that the NAESB rules regarding tagging do not allow a transmission provider to change the tag of a transmission customer. That is why, in Order No. 890, the Commission directed transmission providers to coordinate with other transmission providers in their regions to develop their own business practices to implement the tagging and tracking of conditional firm service. Upon consideration of petitioners' concerns, we grant rehearing to require transmission providers, in coordination with NERC and NAESB, to develop within 180 days of publication of this order in the Federal Register a consistent set of tracking capabilities and business practices for tagging for implementation of conditional firm service. We agree with petitioners that a consistent set of practices followed by the industry will reduce transmission provider discretion and bring uniformity in implementing conditional firm service. In the interim, the existing business practices of each transmission provider for tracking and tagging conditional firm service shall remain in effect.</p>	WEQ 2008 Annual Plan Item 2(a)(vii)(1)	<p>FORMAL COMMENT: 3rd Quarter 2008</p> <p>WEQ EC VOTE: 3rd Quarter 2008</p> <p>RATIFICATION: 3rd Quarter 2008</p>	<p>Assigned to the ESS/ITS.</p> <p>Order 890-A publications date: January 16, 2008.</p> <p>On April 4, 2008, the ESS/ITS voted to send this recommendation out for informal comments due April 11, 2008.</p> <p>Recommendation posted for 30-day formal comment period on June 25th.</p> <p>Approved by WEQ EC on August 8, 2008.</p> <p>Ratified by the membership on 9/25/2008.</p>
N S	<p>Submittal Windows: Standardized practices for allocating capacity among requests received during a submittal window.</p> <p>Order 890-A: 805. The Commission recognizes that developing methods to allocate capacity among requests received during a submittal window may require detailed procedures, particularly when transmission requests received simultaneously exceed available capacity. As the Commission explained in Order No. 890, however, we believe that each transmission provider is in the best position to develop allocation procedures that are suitable for its system. This does not preclude transmission providers from working through NAESB to develop standardized practices, as suggested by Southern. For example, as we pointed out in Order No. 890, allocation methods such as that used by PJM to allocate monthly firm point-to-point transmission service could provide useful</p>	WEQ 2008 Annual Plan Provisional Item 7	<p>FORMAL COMMENT:</p> <p>WEQ EC VOTE:</p> <p>RATIFICATION:</p>	No date assigned for completion.

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		guidance in developing general allocation procedures.			



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**NAESB UPDATE: VERSION 1.9 – WHOLESALE GAS QUADRANT (WGQ)
MARCH 20, 2009**

THE FINAL ACTIONS TO BE APPLIED TO WGQ VERSION 1.8 TO CREATE WGQ VERSION 1.9:

Version 1.8 was published on September 30, 2006.

2006:

R02008 Final Action - Add new transaction types in the Nomination (1.4.1) and Scheduled Quantity (1.4.5) data sets. - Ratified December 28, 2006.

R03005 Final Action - Add code values for the Service Code data element in the Transportation/Sales Invoice (3.4.1). - Ratified December 28, 2006.

R03009 Final Action - Add a Transactional category to the Informational Posting under NAESB WGQ Standard 4.3.21 and the following subcategories to NAESB WGQ Standard 4.3.23: Transactional Firm, Interruptible, Capacity Release. - Ratified December 28, 2006.

2007:

WGQ 2007 Annual Plan Item 6 Final Action - Update the NAESB WGQ Canadian Addendum related to the UPDATE of the NAESB WGQ Base Contract for Sale and Purchase of Natural Gas (NAESB WGQ Standard 6.3.1) dated September 5, 2006 and other industry comments proposed during the discussions - Ratified August 2, 2007

R06008 Final Action - Modify WGQ Business Practice Standard 4.3.90 to clarify that all available data at representative points should be made available by Transmission Service Providers - Ratified August 2, 2007.

R06014 - Add code values for the Rate Identification Code data element in the Transactional Reporting datasets. - Ratified February 17, 2008.

2007 WGQ Annual Plan Item 5 Final Action - Develop Frequently Asked Questions (FAQs) related to the UPDATE of the NAESB WGQ Base Contract for Sale and Purchase of Natural Gas (NAESB WGQ Standard 6.3.1) dated September 5, 2006. - Ratified August 18, 2007.

2008:

R04001 Final Action – Add new data element “Contact Person (E-mail Address)” to data set: NAESB WGQ Standard No. 2.4.4 Shipper Imbalance. - Ratified December 17, 2008.

R04002 Final Action – Add new data elements “Billable Party (Payer) Contact” at the same level as the Billable Party (Payer Data) and add new data element “Invoice Status Code” to the header level and two corresponding code values in data sets: NAESB WGQ Standard No. 3.4.1 Transportation Sales/Invoice and NAESB WGQ Standard No. 3.4.4 Service Requester Level Charge/Allowance Invoice. - Ratified December 17, 2008.

R04004 Final Action – Add new data element “Voluntary GRI Paid” at the detail level (billable party level) in data set: NAESB WGQ Standard No. 4.3.2 Payment Remittance. - Ratified December 17, 2008.

R04012 Final Action – Add new data element “Location Data” (SO) and delete data element “PI Data Ref. Number” (SO) in data set: NAESB WGQ Standard No. 2.4.6 Measured Volume Audit Statement. - Ratified December 17, 2008.



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NAESB UPDATE: VERSION 1.9 – WHOLESALE GAS QUADRANT (WGO) MARCH 20, 2009

R04033/R05011/R05023/R05025/R05029 Final Action – Add three code values for data element “Adjustment Type” in data set: NAESB WGO Standard No. 2.4.3 Allocation and add six code values for data element “Adjustment Type” in data set: NAESB WGO Standard No. 2.4.4 Shipper Imbalance. - Ratified December 17, 2008.

R04041 Final Action – Add three code values for data element “Allocation Method” in data set: NAESB WGO Standard No. 2.4.1 Pre-determined Allocation. - Ratified December 17, 2008.

R06019 Final Action – Add three warning validation code values in data set: NAESB WGO Standard No. 2.4.2 Pre-determined Allocation Quick Response. - Ratified December 17, 2008.

R07012 Final Action – Add four code values for data element “Meter Type” to data set: NAESB WGO Standard No. 2.4.6 Measured Volume Audit Statement. - Ratified December 17, 2008.

R96121-a23/R07011 Final Action – Add code value definitions for various code values associated with 49 different data elements in one or more of the following 22 data sets: NAESB WGO Standard No. 2.4.4 Shipper Imbalance, NAESB WGO Standard No. 2.4.6 Measured Volume Audit Statement, NAESB WGO Standard No. 2.4.8 Response to Request for Information, NAESB WGO Standard No. 3.4.1 Transportation / Sales Invoice, NAESB WGO Standard No. 5.4.1 Offer Download, NAESB WGO Standard No. 5.4.2 Bid Download, NAESB WGO Standard No. 5.4.3 Award Download, NAESB WGO Standard No. 5.4.4 Replacement Capacity, NAESB WGO Standard No. 5.4.5 Withdrawal Capacity, NAESB WGO Standard No. 5.4.6 Withdrawal Upload, NAESB WGO Standard No. 5.4.7 Offer Upload, NAESB WGO Standard No. 5.4.8 Offer Upload Quick Response, NAESB WGO Standard No. 5.4.9 Offer Upload Notification, NAESB WGO Standard No. 5.4.10 Offer Upload Bidder Confirmation, NAESB WGO Standard No. 5.4.11 Offer Upload Bidder Confirmation Quick Response, NAESB WGO Standard No. 5.4.12 Offer Upload Final Disposition, NAESB WGO Standard No. 5.4.13 Operationally Available and Unsubscribed Capacity, NAESB WGO Standard No. 5.4.14 Upload of Request for Download of Posted Datasets, NAESB WGO Standard No. 5.4.15 Response to Upload of Request for Download of Posted Datasets, NAESB WGO Standard No. 5.4.16 System Wide Notices, NAESB WGO Standard No. 5.4.17 Note/Special Instruction and NAESB WGO Standard No. 5.4.18 Bid Upload. - Ratified December 17, 2008.

R05028 Final Action – Add three new codes in the “Allocation Transaction Type Matrix” Code Values Dictionary for data set: NAESB WGO Standard No. 2.4.3 Allocation and add three new code values for data element “Allocation Transaction Type” in dataset: NAESB WGO Standard 2.4.7 Request for Information. - Ratified December 17, 2008.

R04024/R04039/R05024 Final Action – Add eight and modify three code values, modify one code value description, and one code value definition for data element “Charge Type” in data element: NAESB WGO Standard No. 3.4.1 Transportation / Sales Invoice. - Ratified December 17, 2008.

R05003 Final Action – Add code value “Special Fuel Surcharge” to data element “Charge Type” in data set: NAESB WGO Standard No. 3.4.1 Transportation / Sales Invoice. - Ratified December 17, 2008.

R06013 Final Action – Add 13 code values for the data element “Charge Type” in data set: NAESB WGO Standard No. 3.4.1 Transportation / Sales Invoice. - Ratified December 17, 2008.

R06017 Final Action – Add three warning and two error validation code values in data set: NAESB WGO Standard No. 1.4.2 Nomination Quick Response. - Ratified December 17, 2008.

R06018 Final Action – Add two error validation code values in data set: NAESB WGO Standard No. 1.4.7 Confirmation Response Quick Response. - Ratified December 17, 2008.

R06020 Final Action – Add one warning validation code value to data set: NAESB WGO Standard No. 2.4.2 Pre-determined Allocation Quick Response. - Ratified December 17, 2008.



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NAESB UPDATE: VERSION 1.9 – WHOLESALE GAS QUADRANT (WGQ) MARCH 20, 2009

R06021 Final Action – Add new code values for the data element “Transaction Type” in data sets: NAESB WGQ Standard No. 1.4.1 Nominations, NAESB WGQ Standard No. 1.4.5 Scheduled Quantity, NAESB WGQ Standard No. 2.4.4 Shipper Imbalance, and NAESB WGQ Standard No. 2.4.4 Transportation / Sales Invoice. - Ratified December 17, 2008.

R07006 Final Action – Add two code values for the data element “Reduction Reason” in data set: NAESB WGQ Standard No. 1.4.6 Scheduled Quantity for Operator. - Ratified December 17, 2008.

R07016 Final Action – Add two code values for the data element “Reduction Reason” in data sets: NAESB WGQ Standard No. 1.4.4 Confirmation Response, NAESB WGQ Standard No. 1.4.5 Scheduled Quantity, and NAESB WGQ Standard No. 1.4.6 Scheduled Quantity for Operator. - Ratified December 17, 2008.

R07017 Final Action – Add two warning validation code values in data set: NAESB WGQ Standard No. 1.4.2 Nomination Quick Response. - Ratified December 17, 2008.

R06023 Final Action – Add 19 code values for data element “Reduction Reason” in data sets: NAESB WGQ Standard No. 1.4.5 Scheduled Quantity and NAESB WGQ Standard 1.4.6 Scheduled Quantity for Operator. - Ratified December 17, 2008.

2007 WGQ Annual Plan Item 7a/2008 WGQ Annual Plan Item 4a Final Action - Develop standards to provide for index-based pricing for capacity release. (FERC Order No. 698 issued 6-25-07, Docket Nos. RM05-5-001 and RM96-1-027). - Ratified August 25, 2008.

2007 WGQ Annual Plan Item 7b/2008 WGQ Annual Plan item 4b Final Action - Develop standards for providing increased receipt and delivery point flexibility through the use of redirects of scheduled quantities. (FERC Order No. 698 issued 6-25-07, Docket Nos. RM05-5-001 and RM96-1-027). - Ratified August 25, 2008.

2007 WGQ Annual Plan Item 3/2007 Retail Annual Plan Item 9 Final Action - Develop or amend WGQ technical standards, as appropriate, to address the DOE Sandia National Laboratories 2006 surety assessment findings and recommendations (WGQ)/Address issues raised in the Department of Energy’s Sandia National Laboratories on NAESB technical standards and respond to the surety assessment finding and recommendations (REQ/RGQ) - Ratified July 11, 2008.

C07003 Final Action - Interpretation of NAESB WGQ Standard 6.3.1 – Base Contract for Sale and Purchase of Natural Gas – Dated April 19, 2002. - Ratified June 21, 2008.

C07002 Final Action - Interpretation of NAESB WGQ Standard 4.3.16. - Ratified June 21, 2008.

R05005 Final Action - Add six code values for the data element Transaction Type in data sets: NAESB WGQ Standard No. 1.4.1 - Nomination, NAESB WGQ Standard No. 1.4.5 - Scheduled Quantity, NAESB WGQ Standard No. 3.4.1 - Transportation/ Sales Invoice. - Ratified June 21, 2008.

R07015 Final Action - Adds a new internet browser plug-in, Adobe Flash Player, to the NAESB Wholesale Gas Quadrant Electronic Delivery Mechanism - Ratified May 2, 2008.

2007 WEQ Annual Plan Item 5 and 2007 WGQ Annual Plan Item 8 Final Action: Develop business practices as needed to support the e-Tariff program including submittal of tariffs and metadata. - Ratified April 4, 2008. 2007 WEQ Annual Plan Item 5 and 2007 WGQ Annual Plan Item 8 Final Action - Attachment

2007 WGQ Annual Plan Item 4 and Retail 2007 Annual Plan Item 6 Final Action - Prepare a joint analysis for AS2 and AS3 protocols as compared to the NAESB IET. - Ratified February 17, 2008.

R01003 Final Action - Add a System Management Service Quantity data element to various capacity release datasets. - Ratified February 17, 2008.



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R02007 Final Action - Add new data element 'Notes Codes' and two related codes for the Invoicing data sets (3.4.1).
- Ratified February 17, 2008.

R02011 Final Action - Add code values for NAESB WGQ Standard 2.4.3 - Allocation, NAESB WGQ Standard 2.4.4 - Shipper Imbalance. - Ratified February 17, 2008.

R03001 Final Action - Request two new data elements be added to the Request for Confirmation, Confirmation Response and Scheduled Quantity for Operator. The new data elements would be used at the same level as the Location Data and would be used to define a limit on the total amount of capacity that could be confirmed as delivery or receipt. - Ratified February 17, 2008.

R03010 Final Action - Modifications to the NAESB WGQ Transactional Reporting - Capacity Release Standard 5.4.20 to enhance the display of capacity release data sets at the Sender's Option, including modifications to existing data elements and new data elements. - Ratified February 17, 2008.

R03011 Final Action - Modifications to NAESB WGQ Transactional Reporting - Firm Transportation Standard 5.4.21 to enhance the display of firm data at the Sender's Option, including the addition of new data elements, changes to existing data elements, and the addition of new code values. - Ratified February 17, 2008.

R03012 Final Action - Modifications to NAESB WGQ Transactional Reporting - Interruptible Transportation Standard 5.4.22 to enhance the display of interruptible data at the Sender's Option, including the additional of new data elements, changes to existing data elements, and the addition of new code values. - Ratified February 17, 2008.

R03016 Final Action - Add a new code value - Corrected / Updated - for Contract Status to provide the ability to identify when the contract data as reported on the transactional reports has been corrected or updated. - Ratified February 17, 2008.

R03020 Final Action - Develop a new defined term/definition for Applicable Regulatory Authority and review NAESB WGQ Standards to make corresponding changes. - Ratified February 17, 2008.

R03021 Final Action - Create a new Standard that indicates that unless otherwise denoted, all times contained with the NAESB WGQ Standards are Central Clock Time. - Ratified February 17, 2008.

R03025 Final Action - Add a new notice type - Rates and Charges - to NAESB WGQ Standard 4.3.2. - Ratified February 17, 2008.

R03028 Final Action - Add a reduction reason code to Scheduled Quantity, Operator Scheduled Quantity and Confirmation Response. - Ratified February 17, 2008.

R03029 Final Action - Add a new Notice Type to System-Wide Notices Standard 5.4.16 to support firm capacity including subscribed ROFR Capacity. - Ratified February 17, 2008.

R03032 Final Action - Change existing data elements of NAESB WGQ Transactional Reporting - Firm Transportation Standard 5.4.21. - Ratified February 17, 2008.

R04022 Final Action - Amend WGQ Standards 1.4.5 and 1.4.6 to allow new reduction reason codes. - Ratified February 17, 2008.

R04023 Final Action - Amend WGQ Standards to add new reduction reason code data element. - Ratified February 17, 2008.

R04026 Final Action - Amend WGQ Standard 1.4.1 to add new storage limitation code value. - Ratified February 17, 2008.

R05006 Final Action - Add code value to Validation Code and Message elements in Nomination Quick Response dataset. - Ratified February 17, 2008.



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R05010 Final Action - Add code values to Validation Code and Message elements in Nomination Quick Response dataset. - Ratified February 17, 2008.

R05012 - Add Reduction Reason code to Scheduled Quantity, Operator Scheduled Quantity and Confirmation Response. - Ratified February 17, 2008.

R05017 - Delete or change the usage of the data element Rate Form/Type Code from datasets 5.4.20, 5.4.21 and 5.4.22. - Ratified February 17, 2008.

R06001 - Add two Nomination Transaction Type codes to support the nomination and tracking of the shipping entity or producing entity on the interconnecting facility where title tracking is employed by the TSP. - Ratified February 17, 2008.

R06007 - Add Reduction Reason code to Scheduled Quantity, Operator Scheduled Quantity and Confirmation Response. - Ratified February 17, 2008.

RR06011 - Add 3 detail (contract) level and 1 sub detail (nomination) level code values to Validation Code and Message elements in Nomination Quick Response dataset. - Ratified February 17, 2008.

R06012 - Add two (2) new code values for the data element "Transaction Type" into Scheduled Quantity and Invoice Datasets. - Ratified February 17, 2008.

R06014 - Add code values for the Rate Identification Code data element in the Transactional Reporting datasets. - Ratified February 17, 2008.

WGQ 2008 Annual Plan Item 10 / R08026 Final Action - Standards of Conduct.

http://www.naesb.org/member_login_form.asp?doc=fa_wgq_2008_api10_r08026.doc – Ratified February 6, 2009.

Recommendation R06016 - "Modify NAESB WGQ Standard No: 4.3.69 to expand the 'Submit' function to include sending records to the TSP for processing from the Matrix to now include the Form as well.":

http://www.naesb.org/member_login_form.asp?doc=wgq_rat021009_wgq_r06016_rec.doc - Ratified March 13, 2009.

Recommendation R08007 - "Modify NAESB WGQ Standard No: 4.3.16 to refer to Appendix C for valid display and download formats." http://www.naesb.org/member_login_form.asp?doc=wgq_rat021009_wgq_r08007_rec.doc - Ratified March 13, 2009.

R08015/2009 WGQ Annual Plan Item 2.b/2009 Retail Annual Plan Item 5 – 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): http://www.naesb.org/pdf4/r08015_rec.doc

Exhibit "A": http://www.naesb.org/pdf4/r08015_rec_attach1.doc (clean)
http://www.naesb.org/pdf4/r08015_rec_attach2.doc (redline)

Exhibit "B": http://www.naesb.org/pdf4/r08015_rec_attach3.doc

Exhibit "C": http://www.naesb.org/pdf4/r08015_rec_attach4.doc

Exhibit "D": http://www.naesb.org/pdf4/r08015_rec_attach5.doc (clean)
http://www.naesb.org/pdf4/r08015_rec_attach6.doc (redline)

Exhibit "E": http://www.naesb.org/pdf4/r08015_rec_attach7.doc (clean)
http://www.naesb.org/pdf4/r08015_rec_attach8.doc (redline)

Exhibit "F": http://www.naesb.org/pdf4/r08015_rec_attach9.doc (clean)



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http://www.naesb.org/pdf4/r08015_rec_attach10.doc (redline)

(Out for Formal Comments – Due April 13, 2009)

THE MINOR CORRECTIONS TO BE APPLIED TO WGQ VERSION 1.9:

Request for Comment on the following minor correction to NAESB WGQ Versions 1.7 and 1.8 Interpretation 7.3.16 adopted by the WGQ EC on May 15, 2008: Minor Correction to NAESB WGQ Interpretations 7.3.16

Request for Comments for a Recommendation for Interpretation for Request for Clarification C07003. Comments are due March 8, 2008. Recommendation for Interpretation for Request for Clarification C07003, Comments Submitted by D. Gussow, FPL, Comments Submitted by D. Davis, Williams Gas Pipeline

Request for Comments for a Recommendation for Interpretation for Request for Clarification C07002. Comments are due March 8, 2008. Recommendation for Interpretation for Request for Clarification C07002, Comments Submitted by D. Davis, Williams Gas Pipeline

Request for Comment on the following minor correction adopted by the WGQ, REQ and RGQ EC's on January 4, 2008: Minor Correction to NAESB WGQ / REQ / RGQ Internet Electronic Transport (Standard No. 10.3.7)

Request for Comment on the following three minor corrections to the NAESB WGQ Version 1.8 Standards. Comments are due December 13, 2006. Minor Correction - Duplicate NAESB WGQ Standard 4.3.89s in Booklet 1 of 1 (Version 1.8), Minor Correction - re WGQ Standard 5.4.10 - Offer Upload Bidder Confirmation – Data Element Bidder Contact Name - Invoice (Version 1.8), Minor Correction - re NAESB WGQ Standard 5.4.21 – Transactional Reporting – Firm Transportation – Data Element Abbreviation (Version 1.7 and Version 1.8)

Request for Comment on the following minor correction to the NAESB WGQ Standard No. 4.3.16 adopted by the WGQ EC on September 13, 2006. Comments are due September 28, 2006. Minor Correction for WGQ Standard No. 4.3.16

Request for Comment on the following minor correction to the NAESB Version 1.7 WGQ Standards adopted by the WGQ EC on August 17, 2006. Comments are due September 13, 2006. Minor Correction for WGQ Version 1.7 Recall Notification Period Indicators

PENDING ITEMS FOR VERSION 1.9 TO BE COMPLETED BY 2ND QUARTER 2009:

- Order 698
- Order 712
- Order 720
- Gas Quality
- Revised Trading Partner Agreement (TPA)

TIMELINE:

- Version 1.9 publication date was originally intended to follow the 24-month schedule outlined in the NAESB Operating Practices (September 2008), but has now been scheduled for 3rd Quarter 2009 (*including Order 698, Order 712, Gas Quality and TPA items pending and completion of member ratification for those pending items*) (refer to [November WGQ EC Minutes](#)).



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NAESB UPDATE: VERSION 1.9 – WHOLESALE GAS QUADRANT (WGQ) MARCH 20, 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.



NAESB WEQ FINAL ACTION RATIFIED March 16, 2009

December 2, 2008

Requesters: DSM-EE Subcommittee

Request No.: 2008 AP Item 5(a)

Review and develop business practice standards to support DR and DSM-EE programs

1. RECOMMENDED ACTION:

- Accept as requested
- Accept as modified below
- Decline

EFFECT OF EC VOTE TO ACCEPT RECOMMENDED ACTION:

- Change to Existing Practice
- Status Quo

2. TYPE OF DEVELOPMENT/MAINTENANCE

Per Request:

- Initiation
- Modification
- Interpretation
- Withdrawal

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

Per Recommendation:

- Initiation
- Modification
- Interpretation
- Withdrawal

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

3. RECOMMENDATION

SUMMARY:

The standards support the measurement and verification characteristics of Demand Response products and services administered for application in the wholesale market and may be the subject of individual tariffs filed with and approved by the Federal Energy Regulatory Commission.

RECOMMENDED STANDARDS:

DISCLAIMER: This document contains draft information on standards for wholesale electricity Demand Response products and services in markets administered by Independent System Operators and Regional Transmission Organizations (hereinafter referred to as "System Operator"). The information contained within this draft is not intended to replace applicable tariff, market rules, operating procedures, protocols or manuals, for wholesale Demand Response, and in the event of a conflict, the latter documents shall have precedence over these standards.

Contact information: Eric Winkler, Ph.D., ISO New England, 413-540-4513, ewinkler@iso-ne.com

WEQ-015 Business Practices for Wholesale Electricity Demand Response Programs - Please see attached documentation.



NAESB WEQ FINAL ACTION RATIFIED March 16, 2009

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Requesters: DSM-EE Subcommittee

Request No.: 2008 AP Item 5(a)

Review and develop business practice standards to support DR and DSM-EE programs

Business Practices for Measurement and Verification of Wholesale Electricity Demand Response

Introduction

1. Measurement and Verification Standards

These Measurement and Verification (M&V) standards are intended to facilitate Demand Response in wholesale electricity markets by providing a common framework for the following:

- **Transparency:** accessible and understandable M&V requirements for Demand Response products;
- **Accountability:** criteria that will enable the System Operator to accurately measure performance of Demand Response resources; and
- **Consistency:** standards applicable across all wholesale electricity markets.

2. Applicability of Measurement and Verification Standards:

ISO/RTO Administered Markets

These standards are applicable only to Independent System Operator-Regional Transmission Organization administered markets in North America. The standards reflect business practices applicable to measurement and verification of wholesale market Demand Response services including the following four product/service categories¹:

Energy Service

A type of Demand Response service in which Demand Resources are compensated based solely on Demand reduction performance during a Demand Response event.

Capacity Service

A type of Demand Response service in which Demand Resources are obligated over a defined period of time to be available to provide Demand Response upon deployment by the System Operator.

Reserve Service

A type of Demand Response service in which Demand Resources are obligated to be available to provide Demand reduction upon deployment by the System Operator, based on reserve capacity requirements that are established to meet applicable reliability standards.

¹ The terms Product(s) or Service(s) may be used interchangeably in these standards.



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Request No.: 2008 AP Item 5(a)

Review and develop business practice standards to support DR and DSM-EE programs

Regulation Service

A type of Demand Response service in which a Demand Resource increases and decreases Load in response to real-time signals from the System Operator. Demand Resources providing Regulation Service are subject to dispatch continuously during a commitment period. Demand Resources providing Regulation Service automatically respond to changes in grid frequency (similar to the governor action on a generator), and also are subject to continuous dispatch based on instructions from the System Operator (similar to Automatic Generation Control). Provision of Regulation Service does not correlate to Demand Response Event timelines, deadlines and durations.

These standards establish Demand Response M&V criteria. They do not establish requirements related to the compensation, design, operation, or use of Demand Response services. In these regards, System Operators are not required to offer these Services and may not currently offer each of these Services. Terms that are capitalized in these standards have the meanings ascribed to them in the Definitions of Terms section.

For purposes of these Measurement and Verification standards, Demand Response does not include Measurement and Verification of energy efficiency or permanent Load reduction.

Tariff Conflict and NERC Standards:

In the event of a conflict between these business practices and the System Operator's Tariffs, market rules, operating procedures, protocols or manuals, the Tariff, market rules, operating procedures, protocols or manuals shall have precedence. Terms defined in the Definition of Terms do not modify or supersede market rule or tariff definitions that apply to the compensation, design, operation, or use of Demand Response services. Additionally, all entities supplying Demand Response Services shall comply with applicable NERC reliability standards.

Non-ISO/RTO Markets:

These standards do not apply in markets administered by non-ISO/RTOs. Wholesale Demand Response standards applicable to non- ISO/RTO markets will be developed when required.



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Request No.: 2008 AP Item 5(a)

Review and develop business practice standards to support DR and DSM-EE programs

3. Overview of the Standards

These M&V standards establish criteria for the use of equipment, technology, and procedures to quantify the Demand Reduction Value delivered. Standards developed may include commonalities among product types. The following outline of standards is applicable to the four Demand Response product categories.

General	Advance Notification
	Deployment Time
	Reduction Deadline
	Release/Recall
	Normal Operations
	Demand Resource Availability Measurement
	Aggregation
	Transparency of Requirements
Telemetry	Telemetry Requirement
	Telemetry Accuracy
	Telemetry Interval
	Other Telemetry Measurements
	Communication Protocol
	Governor Control Equivalent
	On-Site Generation Telemetry Requirement
After-The-Fact Metering	After-the-Fact Metering Requirement
	Meter Accuracy
	Details of Meter/Equipment Standards
	Meter Data Reporting Deadline
	Meter Data Reporting Interval
	Clock / Time Accuracy
	Validating, Editing & Estimating (VEE) Method
	On-Site Generation Meter Requirement
Performance Evaluation	Rules for Performance Evaluation



NAESB WEQ FINAL ACTION RATIFIED March 16, 2009

December 2, 2008

Requesters: DSM-EE Subcommittee

Request No.: 2008 AP Item 5(a)

Review and develop business practice standards to support DR and DSM-EE programs

Performance Evaluation Methodology

For each Demand Response service, a performance evaluation methodology is used to determine the Demand Reduction Value provided by a Demand Resource. The standards include descriptions of acceptable Baselines and alternative performance measurements that are appropriate for each of the four types of Demand Response services. The table below provides an outline of the applicable criteria for performance evaluation methodologies.

Baseline Information	Baseline Window
	Calculation Type
	Sampling Precision and Accuracy
	Exclusion Rules
	Baseline Adjustments
	Adjustment Window
Event Information	Use of Real-Time Telemetry
	Use of After-The-Fact Metering
	Performance Window
	Measurement Type
Special Processing	Highly-Variable Load Logic
	On-Site Generation Requirements

These standards do not specify detailed characteristics of performance evaluation methodologies, but rather provide a framework that may be used to develop performance evaluation methodologies for specific Demand Response services. The System Operator may offer multiple performance evaluation models and may assign a Demand Resource to a model based on the characteristics of the Demand Resource's Load or allow the Demand Resource to choose a performance evaluation model consistent with its load characteristics from a predefined list. The following methodology types are applicable to wholesale Demand Response Services:

Maximum Base Load: A performance evaluation methodology based solely on a Demand Resource's ability to reduce to a specified level of electricity demand, regardless of its electricity consumption or demand at Deployment.

Meter Before / Meter After: A performance evaluation methodology where electricity consumption or demand over a prescribed period of time prior to Deployment is compared to similar readings during the Sustained Response Period.

Baseline Type-I: A Baseline performance evaluation methodology based on a Demand Resource's historical interval meter data which may also include other variables such as weather and calendar data.



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Request No.: 2008 AP Item 5(a)

Review and develop business practice standards to support DR and DSM-EE programs

Baseline Type-II: A Baseline performance evaluation methodology that uses statistical sampling to estimate the electricity consumption of an Aggregated Demand Resource where interval metering is not available on the entire population.

Metering Generator Output: A performance evaluation methodology, used when a generation asset is located behind the Demand Resource's revenue meter, in which the Demand Reduction Value is based on the output of the generation asset.

Performance Evaluation Type	Valid For Service Type			
	Energy	Capacity	Reserves	Regulation
Maximum Base Load	✓	✓	✓	
Meter Before / Meter After	✓	✓	✓	✓
Baseline Type-I	✓	✓	✓	
Baseline Type-II	✓	✓	✓	
Metering Generator Output	✓	✓	✓	✓



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December 2, 2008

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Request No.: 2008 AP Item 5(a)

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Definition of Terms

DEMAND RESPONSE EVENT TERMS

Illustration of Timing of a Demand Response Event

The illustration below represents the terms for timing events and time durations applicable to the characteristics of a Demand Response Event. The definitions of the ten elements in the illustration are the basis for describing the Timing of a Demand Response Event. The applicability of these elements to a Demand Response Service is dependent on the Service type. The System Operator shall specify whether any or all of the elements illustrated in the Timing Demand Response Event figure are applicable. In some cases, some elements will not be applicable; the inclusion of the elements establish a requirement for said elements.

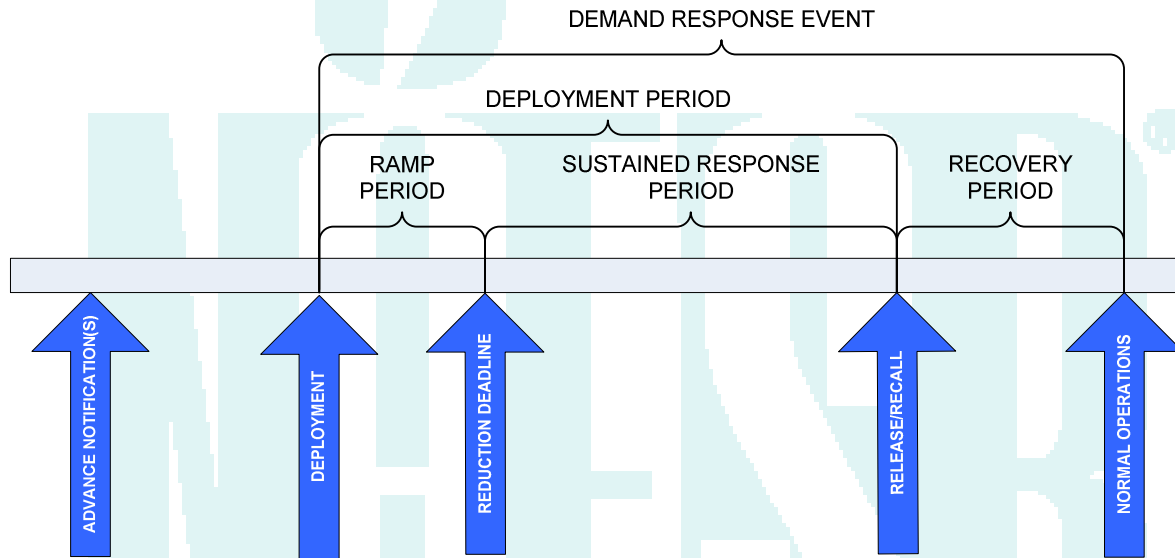


Figure 1. Timing of a Demand Response Event

The following terms refer to the above Figure 1.

Advance Notification(s)

One or more communications to Demand Resources of an impending Demand Response Event in advance of the actual event.



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Demand Response Event

The time periods, deadlines and transitions during which Demand Resources perform. The System Operator shall specify the duration and applicability of a Demand Response Event. All deadlines, time periods and transitions may not be not 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.

Deployment Period

The time in a Demand Response Event beginning with the Deployment and ending with the Release/Recall.

Normal Operations

The time following Release/Recall at which a System Operator may require a Demand Resource to have returned its Load consumption to normal levels, and to be available again for Deployment.

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 System Operator or Demand Response Provider 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.

GENERAL TERMS

Adjustment Window

The period of time prior to a Demand Response Event used for calculating a Baseline adjustment.



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After-the-Fact Metering

Interval meter data separate from Telemetry that is used to measure Demand Response. May not apply to Demand Resources under Baseline Type II (Non-Interval Meter).

Aggregated Demand Resource

A group of independent Load facilities that provide Demand Response services as a single Demand Resource.

Baseline

A Baseline is an estimate of the electricity that would have been consumed by a Demand Resource in the absence of a Demand Response Event. The Baseline is compared to the actual metered electricity consumption during the Demand Response Event to determine the Demand Reduction Value. Depending on the type of Demand Response product or service, Baseline calculations may be performed in real-time or after-the-fact. Figure 2. below illustrates the concept of Baseline relative to a Demand Response Event.

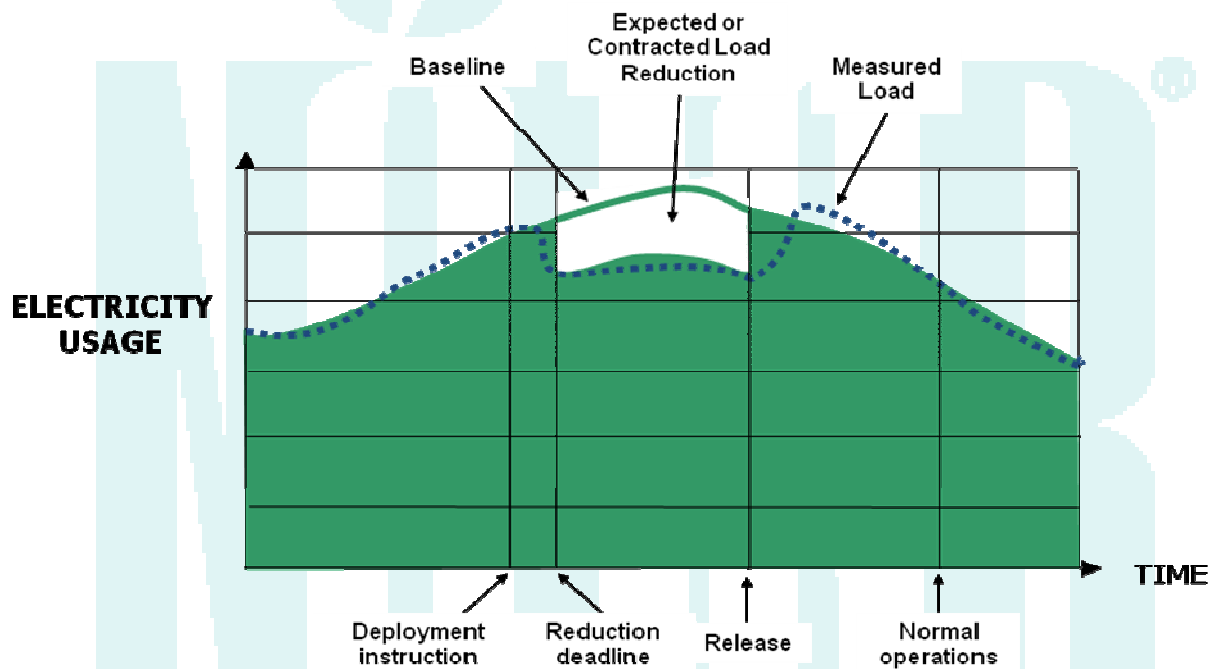


Figure 2. Illustration of Baseline Concept.



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Baseline Adjustment

An adjustment that modifies the Baseline to reflect actual conditions immediately prior to or during a Demand Response Event to provide a better estimate of the energy the Demand Resource would have consumed but for the Demand Response Event. The adjustments may include but are not limited to weather conditions, near real time event facility Load, current Demand Resource operational information, or other parameters based on the System Operator's requirements.

Baseline Type-I (Interval Metered)

A Baseline performance evaluation methodology based on a Demand Resource's historical interval meter data which may also include other variables such as weather and calendar data.

Baseline Type-II (Non-Interval Metered)

A Baseline performance evaluation methodology that uses statistical sampling to estimate the electricity consumption of an Aggregated Demand Resource where interval metering is not available on the entire population.

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. The applicability of this term is limited to Meter Before/Meter After, and Baseline Type-I and Type-II.

Capacity Service

A type of Demand Response service in which Demand Resources are obligated over a defined period of time to be available to provide Demand Response upon deployment by the System Operator.

Demand Response Provider

The entity that is responsible for delivering Demand reductions from Demand Resources and is compensated for providing such Demand Response products in accordance as specified by the System Operator.

Demand

The rate at which electric energy is delivered to or by a system or part of a system, generally expressed in kilowatts or megawatts, at a given instant or averaged over any designated interval of time; and the rate at which energy is being used by the customer (NERC Definition).

Demand Reduction Value

Quantity of reduced electrical consumption by a Demand Resource, expressed as MW or MWh.

Demand Resource

A Load or aggregation of Loads capable of measurably and verifiably providing Demand Response.



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Demand Response

A temporary change in electricity consumption by a Demand Resource in response to market or reliability conditions. For purposes of these standards, Demand Response does not include energy efficiency or permanent Load reduction.

Energy Service

A type of Demand Response service in which Demand Resources are compensated solely based on their performance during a Demand Response Event.

Highly-Variable Load

A Load with a fluctuating or unpredictable electricity consumption pattern.

Load

An end-use device or customer that receives power from the electric system (NERC Definition).

Maximum Base Load

A performance evaluation methodology based solely on a Demand Resource's ability to reduce to a specified level of electricity Demand, regardless of its electricity consumption or Demand at Deployment.

Meter Before / Meter After

A performance evaluation methodology where electricity Demand over a prescribed period of time prior to Deployment is compared to similar readings during the Sustained Response Period.

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).

Metering Generator Output

A performance evaluation methodology, used when a generation asset is located behind the Demand Resource's revenue meter, in which the Demand Reduction Value is based on the output of the generation asset.

Performance Window

The period of time in a Demand Response Event analyzed by the System Operator to measure and verify the Demand Reduction Value for a Demand Resource.



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Ramp Rate

The rate, expressed in megawatts per minute, that a generator changes its output. (NERC Definition) Demand Resource ramp rate is the rate, expressed in megawatts per minute, that a Demand Resource changes its Load.

Regulation Service

A type of Demand Response service in which a Demand Resource increases and decreases Load in response to real-time signals from the System Operator. Demand Resources providing Regulation Service are subject to dispatch continuously during a commitment period. Provision of Regulation Service does not correlate to Demand Response Event timelines, deadlines and durations as depicted in Figure 1.

Reserve Service

A type of Demand Response service in which Demand Resources are obligated to be available to provide Demand reduction upon deployment by the System Operator, based on reserve capacity requirements that are established to meet applicable reliability standards.

System Operator

A System Operator is a Balancing Authority, Transmission Operator, or Reliability Coordinator whose responsibility is to monitor and control an electric system in real time (based on NERC definition). The System Operator is responsible for initiating Advance Notifications, Deployment, and Release/Recall instructions.

Telemetry

Real-time continuous communication between a Demand Resource or Demand Response Provider and the System Operator.

Telemetry Interval

The time unit between communications between a Demand Resource or Demand Response Provider and a System Operator.

Validation, Editing and Estimation

The process of taking raw meter data and performing validation and, as necessary, editing and estimation of corrupt or missing data, to create validated data. (VEE guidelines are published in the Edison Electric Institute's Uniform Business Practices for Unbundled Electricity Metering, Volume Two, Published 12/05/00, http://www.naesb.org/REQ/req_form.asp)



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Business Practice Requirements:

Provision of Wholesale Electric Demand Response Energy Products

Applicability

The Standard applies to any entity that administers wholesale Demand Response Energy Products.

Purpose

The purpose of this Standard is to ensure that participants in wholesale electric markets in which these Products are administered receive uniform access to information that will enable them to participate in said markets.

015-1.0 GENERAL

- **Advance Notification**

The System Operator shall specify any requirements for the Advance Notification instruction.

- **Deployment Time**

The System Operator shall specify the time at which Demand Resources must begin reducing Demand on the system.

- **Reduction Deadline**

The System Operator shall specify the Reduction Deadline.

- **Release/Recall**

The System Operator shall specify the time at which Demand Resources shall be instructed to begin restoring Load.

- **Normal Operations**

The System Operator shall specify Normal Operations.

- **Demand Resource Availability Measurement**

Not applicable to Energy Service unless otherwise specified by the System Operator.

- **Aggregation**

The System Operator shall specify any requirements for aggregated Demand.

- **Transparency of Requirements**

Any specific requirements shall be defined in a System Operator's tariff, market rules, operating procedures, protocols or manuals and shall be posted in a publicly accessible location.



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015-1.1 TELEMETRY

- **Telemetry Requirement**

The System Operator shall specify any requirements for real-time Telemetry, including, but not limited to: the use of real-time Telemetry, the entity or entities responsible for installing and maintaining Telemetry equipment and collecting and communicating Telemetry data.

- **On-Site Generation Telemetry**

If on-site generation is present behind the primary Telemetry point, real-time Telemetry data shall be required to measure performance of the generator unless otherwise specified by the System Operator.

- **Telemetry Accuracy**

The System Operator shall specify the accuracy of the real-time Demand measurement to be expressed as a percentage of full scale, not to exceed 3.0%.

- **Telemetry Interval**

The System Operator shall specify the Telemetry Interval at a value not to exceed 5 minutes.

- **Other Telemetry Measurements**

The System Operator shall specify any additional Telemetry data requirements.

- **Communication Protocol**

The System Operator shall specify the Telemetry communication protocol.

- **Governor Control Equivalent**

Not applicable to Energy Service unless otherwise specified by the System Operator.

015-1.2 AFTER-THE-FACT METERING

- **After-the-Fact Metering Requirement**

After-the-Fact Metering is required unless otherwise specified by the System Operator.

- **Meter Accuracy**

The System Operator shall specify the accuracy of the After-the-Fact Metering not to exceed 3% of full scale.

- **Details of Meter/Equipment Standards**

Meter/Equipment standards shall meet or exceed industry standards equivalent to ANSI C12 unless otherwise specified by the System Operator.

- **Meter Data Reporting Deadline**

The System Operator shall specify the Meter Data Reporting Deadline.



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- **Meter Data Reporting Interval**

The System Operator shall specify the Meter Data Reporting Interval at a value not to exceed 1 hour.

- **Clock / Time Accuracy**

The System Operator shall specify the clock and time accuracy. Clock and time meter/equipment standards shall meet or exceed industry standards equivalent to ANSI C12 unless otherwise specified by the System Operator.

- **Validating, Editing & Estimating (VEE) Method**

The System Operator shall specify VEE requirements.

- **On-Site Generation Meter Requirement**

The System Operator shall specify additional metering requirements if on-site generation is present behind the primary metering point.

015-1.3 PERFORMANCE EVALUATION

- **Rules for Performance Evaluation**

Performance shall be evaluated through the use of one of the following methods unless otherwise specified by the System Operator:

- Maximum Base Load
- Meter Before / Meter After
- Baseline Type-I
- Baseline Type-II
- Metering Generator Output

Business Practice Requirements:

Provision of Wholesale Electric Demand Response Capacity Products

Applicability

The Standard applies to any entity that administers the wholesale Demand Response Capacity Products.

Purpose

The purpose of this Standard is to ensure that participants in wholesale electric markets in which these Products are administered receive uniform access to information that will enable them to participate in said markets.



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015-1.4 GENERAL

- **Advance Notification**

The System Operator shall specify any requirements for the Advance Notification instruction.

- **Deployment Time**

The System Operator shall specify the time at which Demand Resources must begin reducing Demand on the system.

- **Reduction Deadline**

The System Operator shall specify the Reduction Deadline.

- **Release/Recall**

The System Operator shall specify the time at which Demand Resources shall be instructed to begin restoring Load.

- **Normal Operations**

The System Operator shall specify Normal Operations.

- **Demand Resource Availability Measurement**

The System Operator shall specify any requirements for measuring the capability of a Demand Resource to meet its obligation.

- **Aggregation**

The System Operator shall specify any requirements for aggregated Demand Resources.

- **Transparency of Requirements**

Any specific requirements shall be defined in a System Operator's tariff, market rules, operating procedures, protocols or manuals and shall be posted in a publicly accessible location.

015-1.5 TELEMETRY

- **Telemetry Requirement**

The System Operator shall specify any requirements for real-time Telemetry, including, but not limited to: the use of real-time Telemetry, the entity or entities responsible for installing and maintaining Telemetry equipment and collecting and communicating Telemetry data.

- **On-Site Generation Telemetry**

If on-site generation is present behind the primary Telemetry point, real-time Telemetry data shall be required to measure performance of the generator unless otherwise specified by the System Operator.

- **Telemetry Accuracy**



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The System Operator shall specify the accuracy of the real-time Demand measurement to be expressed as a percentage of full scale, not to exceed 3.0%.

- **Telemetry Interval**

The System Operator shall specify the Telemetry Interval at a value not to exceed 5 minutes.

- **Other Telemetry Measurements**

The System Operator shall specify any additional Telemetry data requirements.

- **Communication Protocol**

The System Operator shall specify the Telemetry communication protocol.

- **Governor Control Equivalent**

Not applicable to Capacity Service unless otherwise specified by the System Operator.

015-1.6 AFTER-THE-FACT METERING

- **After-the-Fact Metering Requirement**

After-the-fact Metering is required unless otherwise specified by the System Operator.

- **Meter Accuracy**

The System Operator shall specify the accuracy of the After-the-Fact Metering not to exceed 3% of full scale.

- **Details of Meter/Equipment Standards**

Meter/Equipment standards shall meet or exceed industry standards equivalent to ANSI C12 unless otherwise specified by the System Operator.

- **Meter Data Reporting Deadline**

The System Operator shall specify the Meter Data Reporting Deadline.

- **Meter Data Reporting Interval**

The System Operator shall specify the Meter Data Reporting Interval at a value not to exceed 1 hour.

- **Clock / Time Accuracy**

The System Operator shall specify the clock and time accuracy. Clock and time meter/equipment standards shall meet or exceed industry standards equivalent to ANSI C12 unless otherwise specified by the System Operator.

- **Validating, Editing & Estimating (VEE) Method**

The System Operator shall specify VEE requirements.



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- **On-Site Generation Meter Requirement**

The System Operator shall specify additional metering requirements if on-site generation is present behind the primary metering point.

015-1.7 PERFORMANCE EVALUATION

- **Rules for Performance Evaluation**

Performance shall be evaluated through the use of one of the following methods unless otherwise specified by the System Operator:

- Maximum Base Load
- Meter Before / Meter After
- Baseline Type-I
- Baseline Type-II
- Metering Generator Output

Business Practice Requirements:

Provision of Wholesale Electric Demand Response Reserve Products

Applicability

The Standard applies to any entity that administers the wholesale Demand Response Reserve Products.

Purpose

The purpose of this Standard is to ensure that participants in wholesale electric markets in which these Products are administered receive uniform access to information that will enable them to participate in said markets.

015-1.8 GENERAL

- **Advance Notification**

The System Operator shall specify any requirements for the Advance Notification instruction.

- **Deployment Time**

The System Operator shall specify the time at which Demand Resources must begin reducing Demand on the system.

- **Reduction Deadline**

The System Operator shall specify the Reduction Deadline.



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- **Release/Recall**

The System Operator shall specify the time at which Demand Resources shall be instructed to begin restoring Load.

- **Normal Operations**

The System Operator shall specify Normal Operations.

- **Demand Resource Availability Measurement**

The System Operator shall specify any requirements for measuring the capability of a Demand Resource to meet its obligation.

- **Aggregation**

The System Operator shall specify any requirements for Aggregated Demand Resources.

- **Transparency of Requirements**

Any specific requirements shall be defined in a System Operator's tariff, market rules, operating procedures, protocols or manuals and shall be posted in a publicly accessible location.

015-1.9 TELEMETRY

- **Telemetry Requirement**

The System Operator shall specify any requirements for real-time Telemetry, including, but not limited to: the use of real-time Telemetry, the entity or entities responsible for installing and maintaining Telemetry equipment and collecting and communicating Telemetry data

- **On-Site Generation Telemetry**

If on-site generation is present behind the primary telemetry point, real-time Telemetry data shall be required to measure performance of the generator unless otherwise specified by the System Operator.

- **Telemetry Accuracy**

The System Operator shall specify the accuracy of the real-time Demand measurement to be expressed as a percentage of full scale, not to exceed 3.0%.

- **Telemetry Interval**

The System Operator shall specify the Telemetry Interval at a value not to exceed 5 minutes.

- **Other Telemetry Measurements**

The System Operator shall specify any additional Telemetry data requirements.

- **Communication Protocol**

The System Operator shall specify the Telemetry communication protocol.



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- **Governor Control Equivalent**

Not applicable to Reserve Service unless otherwise specified by the System Operator.

015-1.10 AFTER-THE-FACT METERING

- **After-the-Fact Metering Requirement**

After-the-fact Metering is required unless otherwise specified by the System Operator.

- **Meter Accuracy**

The System Operator shall specify the accuracy of the After-the-Fact Metering not to exceed 3% of full scale.

- **Details of Meter/Equipment Standards**

Meter/Equipment standards shall meet or exceed industry standards equivalent to ANSI C12 unless otherwise specified by the System Operator.

- **Meter Data Reporting Deadline**

The System Operator shall specify the Meter Data Reporting Deadline.

- **Meter Data Reporting Interval**

The System Operator shall specify the Meter Data Reporting Interval at a value not to exceed 1 hour.

- **Clock / Time Accuracy**

The System Operator shall specify the clock and time accuracy. Clock and time meter/equipment standards shall meet or exceed industry standards equivalent to ANSI C12 unless otherwise specified by the System Operator.

- **Validating, Editing & Estimating (VEE) Method**

The System Operator shall specify VEE requirements.

- **On-Site Generation Meter Requirement**

The System Operator shall specify additional metering requirements if on-site generation is present behind the primary metering point.

015-1.11 PERFORMANCE EVALUATION

- **Rules for Performance Evaluation**

Performance shall be evaluated through the use of one of the following methods unless otherwise specified by the System Operator:

- Maximum Base Load
- Meter Before / Meter After
- Baseline Type-I



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- Baseline Type-II
- Metering Generator Output

Business Practice Requirements:

Provision of Wholesale Electric Demand Response Regulation Products

Applicability

The Standard applies to any entity that administers the wholesale Demand Response Regulation Products.

Purpose

The purpose of this Standard is to ensure that participants in wholesale electric markets in which these Products are administered receive uniform access to information that will enable them to participate in said markets.

015-1.12 GENERAL

- **Advance Notification**
Not applicable to Regulation Service unless otherwise specified by the System Operator.
- **Deployment Time**
Not applicable to Regulation Service unless otherwise specified by the System Operator.
- **Reduction Deadline**
Not applicable to Regulation Service unless otherwise specified by the System Operator.
- **Release/Recall**
Not applicable to Regulation Service unless otherwise specified by the System Operator.
- **Normal Operations**
Not applicable to Regulation Service unless otherwise specified by the System Operator.
- **Demand Resource Availability Measurement**
Not applicable to Regulation Service unless otherwise specified by the System Operator.
- **Aggregation**
The System Operator shall specify any requirements for aggregated Demand Resources.
- **Transparency of Requirements**
Any specific requirements shall be defined in a System Operator's tariff, market rules, operating procedures, protocols or manuals and shall be posted in a publicly accessible location.



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015-1.13 TELEMETRY

- **Telemetry Requirement**

The System Operator shall specify any requirements for real-time Telemetry, including, but not limited to: the use of real-time Telemetry, the entity or entities responsible for installing and maintaining Telemetry equipment and collecting and communicating Telemetry data.

- **On-Site Generation Telemetry**

If on-site generation is present behind the primary Telemetry point, real-time Telemetry data shall be required to measure performance of the generator unless otherwise specified by the System Operator.

- **Telemetry Accuracy**

The System Operator shall specify the accuracy of the real-time Demand measurement to be expressed as a percentage of full scale, not to exceed 3.0%.

- **Telemetry Interval**

The System Operator shall specify the Telemetry Interval at a value not to exceed 5 minutes.

- **Other Telemetry Measurements**

The System Operator shall specify any additional Telemetry data requirements.

- **Communication Protocol**

The System Operator shall specify the Telemetry communication protocol.

- **Governor Control Equivalent**

Demand Resources providing Regulation Service shall automatically respond to grid frequency deviations, similar to governor action provided by generation resources, unless otherwise specified by the System Operator.

015-1.14 AFTER-THE-FACT METERING

- **After-the-Fact Metering Requirement**

After-the-fact Metering is required unless otherwise specified by the System Operator.

- **Meter Accuracy**

The System Operator shall specify the accuracy of the After-the-Fact Metering not to exceed 3% of full scale.

- **Details of Meter/Equipment Standards**

Meter/Equipment standards shall meet or exceed industry standards equivalent to ANSI C12 unless otherwise specified by the System Operator.



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- **Meter Data Reporting Deadline**

The System Operator shall specify the Meter Data Reporting Deadline.

- **Meter Data Reporting Interval**

The System Operator shall specify the Meter Data Reporting Interval at a value not to exceed 1 hour.

- **Clock / Time Accuracy**

The System Operator shall specify the clock and time accuracy. Clock and time meter/equipment standards shall meet or exceed industry standards equivalent to ANSI C12 unless otherwise specified by the System Operator.

- **Validating, Editing & Estimating (VEE) Method**

The System Operator shall specify VEE requirements.

- **On-Site Generation Meter Requirement**

The System Operator shall specify additional metering requirements if on-site generation is present behind the primary metering point.

015-1.15 PERFORMANCE EVALUATION

- **Rules for Performance Evaluation**

Performance shall be evaluated using telemetry data and additionally through the use of one of the following methods unless otherwise specified by the System Operator:

- Meter Before / Meter After
- Metering Generator Output

Business Practice Requirements

Maximum Base Load Evaluation

015-1.16 BASELINE INFORMATION

There are no Baseline calculations defined for Maximum Base Load evaluations. The Maximum Base Load Evaluation methodology shall be associated with a demand reduction obligation compared to the Demand Resource's average Load or as specified by the System Operator.

015-1.17 EVENT INFORMATION

- **Use of Real-Time Telemetry**

The System Operator shall specify if real-time Telemetry data is to be used to measure performance.



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- **Use of After-The-Fact Metering**

After-the-fact metering shall be used to measure performance, unless otherwise specified by the System Operator.

- **Performance Window**

The Performance Window shall be the Sustained Response Period (Reduction Deadline through Release/Recall) unless otherwise specified by the System Operator.

- **Measurement Type**

During the Performance Window, the Demand Resource must maintain its electricity consumption at or below the Maximum Base Load. The criteria used to evaluate performance shall be one of the following unless otherwise specified by the System Operator:

- a) Peak Demand
- b) Average Demand

015-1.18 SPECIAL PROCESSING

The System Operator shall specify any special processing rules.

Business Practice Requirements

Meter Before / Meter After

015-1.19 BASELINE INFORMATION

- **Baseline Window**

The System Operator shall specify the Baseline Window.

- **Calculation Type**

During the Baseline Window, the energy consumption or Demand of the Demand Resource shall be evaluated using one of the following measurements unless otherwise specified by the System Operator:

- a) Instantaneous
- b) Maximum
- c) Average

- **Sampling Precision and Accuracy**

Sampling is not permitted for this performance evaluation type, unless otherwise specified by the System Operator.

- **Exclusion Rules**

The System Operator shall specify any exclusion rules.



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- **Baseline Adjustments**

The System Operator shall specify any event-day adjustments.

- **Adjustment Window**

No Adjustment Window is used for this model unless otherwise specified by the System Operator.

015-1.20 EVENT INFORMATION

- **Use of real-time Telemetry**

The System Operator shall specify if real-time Telemetry data is to be used to measure performance.

- **Use of After-The-Fact Metering**

After-the-fact metering shall be used to measure performance, unless otherwise specified by the System Operator.

- **Performance Window**

The Performance Window shall be the Sustained Response Period (Reduction Deadline through Release/Recall) unless otherwise specified by the System Operator.

- **Measurement Type**

During the Performance Window, the Demand Resource shall be evaluated using one of the following measurements unless otherwise specified by the System Operator:

- a) Instantaneous
- b) Maximum
- c) Average

015-1.21 SPECIAL PROCESSING

- **Highly-Variable Load Logic**

The System Operator shall specify any performance evaluation requirements for Highly-Variable Loads.

- **On-Site Generation Requirements**

The System Operator shall specify any performance evaluation requirements for on-site generation.



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Business Practice Requirements

Baseline Type-I (Interval Meter)

015-1.22 BASELINE INFORMATION

- **Baseline Window**

The System Operator shall specify the Baseline Window.

- **Calculation Type**

The System Operator shall specify the method of developing the Baseline value using, but not limited to, the following calculation types:

- a) Maximum
- b) Average
- c) Regression

- **Sampling Precision and Accuracy**

Sampling is not permitted for this Performance Evaluation type, unless otherwise specified by the System Operator.

- **Exclusion Rules**

The System Operator shall specify any rules for excluding data from the Baseline Window.

Exclusion rules may be based on, but are not limited to the following:

- a) Historical Demand Response Events
- b) Testing/Audit Periods
- c) Calendar data
- d) Outages
- e) Weather emergencies or force majeure events
- f) Usage threshold
- g) Known, discrete load additions or reductions that have occurred during the Baseline Window

- **Baseline Adjustments**

The System Operator shall specify any rules for Baseline Adjustments. Adjustment rules may be based on, but are not limited to the following:

- a) Temperature
- b) Humidity
- c) Calendar data
- d) Sunrise/Sunset time
- e) Event day operating conditions

- **Adjustment Window**

The System Operator shall specify the Adjustment Window.



NAESB WEQ FINAL ACTION RATIFIED March 16, 2009

December 2, 2008

Requesters: DSM-EE Subcommittee

Request No.: 2008 AP Item 5(a)

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015-1.23 EVENT INFORMATION

- **Use of Real-Time Telemetry**

The System Operator shall specify if real-time Telemetry data is to be used to measure performance.

- **Use of After-The-Fact Metering**

After-the-fact metering shall be used to measure performance, unless otherwise specified by the System Operator.

- **Performance Window**

The System Operator shall specify the Performance Window.

- **Measurement Type**

During the Performance Window, the Demand Resource shall be evaluated using one of the following measurements unless otherwise specified by the System Operator:

- a) Maximum
- b) Average
- c) Regression

015-1.24 SPECIAL PROCESSING

- **Highly-Variable Load Logic**

The System Operator may specify performance evaluation requirements for Highly-Variable Loads.

- **On-Site Generation Requirements**

The System Operator may specify performance evaluation requirements for on-site generation.

Business Practice Requirements

Baseline Type-II (Non-Interval Meter)

015-1.25 BASELINE INFORMATION

- **Baseline Window**

The System Operator shall specify the Baseline Window.



NAESB WEQ FINAL ACTION RATIFIED March 16, 2009

December 2, 2008

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Request No.: 2008 AP Item 5(a)

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- **Calculation Type**

The System Operator shall specify the method of developing the Baseline value using, but not limited to, the following calculation types:

- a) Maximum
- b) Average
- c) Regression

- **Sampling Precision and Accuracy**

The System Operator shall specify sampling precision and accuracy requirements.

- **Exclusion Rules**

The System Operator shall specify any rules for excluding data from the Baseline Window.

Exclusion rules may be based on, but are not limited to the following:

- a) Historical Demand Response Events
- b) Testing/Audit Periods
- c) Calendar data
- d) Outages
- e) Weather emergencies or force majeure events
- f) Usage threshold
- g) Known, discrete load additions or reductions that have occurred during the Baseline Window

- **Baseline Adjustments**

The System Operator shall specify any rules for Baseline Adjustments. Adjustment rules may be based on, but are not limited to the following:

- a) Temperature
- b) Humidity
- c) Calendar data
- d) Sunrise/Sunset time
- e) Event day operating conditions

- **Adjustment Window**

The System Operator shall specify the Adjustment Window.

015-1.26 EVENT INFORMATION

- **Use of Real-Time Telemetry**

The System Operator shall specify if real-time Telemetry data is to be used to measure performance.

- **Use of After-The-Fact Metering**

After-the-fact metering or other energy measurement technology shall be used to measure performance, as a supplement to real-time Telemetry unless otherwise specified by the System Operator.



NAESB WEQ FINAL ACTION RATIFIED March 16, 2009

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- **Performance Window**

The System Operator shall specify the Performance Window.

- **Measurement Type**

During the Performance Window, the Demand Resource shall be evaluated using one of the following measurements unless otherwise specified by the System Operator:

- a) Maximum
- b) Average
- c) Regression

015-1.27 SPECIAL PROCESSING

The System Operator shall specify any special processing rules.

Business Practice Requirements

Metering Generator Output

015-1.28 BASELINE INFORMATION

The System Operator shall specify Baseline calculations for Metering Generator Output.

015-1.29 EVENT INFORMATION

- **Use of Real-Time Telemetry**

The System Operator shall specify if real-time Telemetry data is to be used to measure performance.

- **Use of After-The-Fact Metering**

After-the-fact metering on the generator and optionally on the associated Load shall be used to measure performance unless otherwise specified by the System Operator.

- **Performance Window**

The System Operator shall specify the Performance Window.

- **Measurement Type**

During the Performance Window, the Demand Resource shall be evaluated using the total measured generation output unless otherwise specified by the System Operator.

015-1.30 SPECIAL PROCESSING

The System Operator shall specify any special processing rules.

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1. RECOMMENDED ACTION:

- Accept as requested
- Accept as modified below
- Decline

EFFECT OF EC VOTE TO ACCEPT RECOMMENDED ACTION:

- Change to Existing Practice
- Status Quo

2. TYPE OF DEVELOPMENT/MAINTENANCE

Per Request:

- Initiation
- Modification
- Interpretation
- Withdrawal

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

Per Recommendation:

- Initiation
- Modification
- Interpretation
- Withdrawal

- Principle
- Definition
- 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:

b. Description of Recommendation:

c. Business Purpose:

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

e. Additional Background documentation

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Business Practices for Measurement and Verification ~~Business Practices for Measurement~~ for Measurement and Verification of Demand of Demand Response Programs in the Electric Retail Market

Introduction

1. Measurement and Verification

(Note: Nos. 1 and 2 were changed to match standard NAESB Retail language. The concepts should have carried forward.)

~~The processes in this document are intended to facilitate~~ This section provides a common framework of the Model Business Practices for Measurement and Verification (M&V) of Demand of Demand Response programs in the retail electricity energy markets, by providing a common framework for the following. The purpose of these Model Business Practices is to provide:

- Transparency: accessible and understandable M&V requirements for Demand Response programs
- Accountability: criteria that will enable the Program Administrator to accurately measure performance of Demand Response Resources; and
- Consistency: a process or protocol that will allow Program Administrators, regulatory commissions Applicable Regulatory Authorities, or program participants to agree on the required steps to take to verify demand reductions resulting from Demand Response programs in retail electricity energy markets.
- Comprehensive: strives to cover all forms of Demand Response

2. Applicability of Measurement and Verification Standards:

~~These standards were developed by the DSM/EE subcommittee working group 2 (retail) of NAESB in concert with working group 1 (wholesale—ISO/RTO) and the Demand Response Data Task Force working group of NERC. The development of this framework was accomplished in an open environment where input from all stakeholders was encouraged and welcomed. The standards reflect business practices applicable to measurement and verification in the retail market for Demand Response Programs. This standard will be provided to regulatory commissions as a voluntary standard and can be adopted as necessary to meeting individual jurisdiction requirements for Demand Response Programs. In some areas Program Administrators will be required to follow the standard developed by the RTO working group if the Demand Response Programs operate in one of the wholesale RTO markets. This set of standards is intended to be consistent with the RTO standard but also to acknowledge differences in product and program types between the two markets. The programs covered by this standard include:~~

The North American Energy Standards Board (NAESB) is a voluntary non-profit organization comprised of members from all aspects of the natural gas and electric industries. Within NAESB, the Retail Electric Quadrant (REQ) and the Retail Gas Quadrant (RGQ) focus on issues impacting the retail sale of energy to

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end-use customers. REQ / RGQ Model Business Practices are intended to provide guidance to Distribution Companies, Suppliers, and other Market Participants involved in providing energy service to end-use Customers. The focus of these Model Business Practices is performing M&V for Demand Response programs. These Model Business Practices are intended to be consistent with the Wholesale Electric Standards, but also acknowledge differences in product and program types between the two markets.

These Model Business Practices are voluntary and do not address policy issues that are the subject of state legislation or regulatory decisions. These Model Business Practices have been adopted with the realization that as the industry evolves, additional and amended Model Business Practices may be necessary. Any industry participant seeking additional or amended Model Business Practices (including principles, definitions, data elements, process descriptions, and technical implementation instructions) should submit a request to the NAESB office, detailing the change, so that the appropriate process may take place to amend the Model Business Practice.

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Retail Demand Response Program Classifications

Definition of Demand Response (~~NERC Definition~~)

~~Changes in electric use by demand side resources from their normal consumption patterns in response to changes in the price of electricity, or to incentive payments designed to induce lower electricity use at times of high wholesale market prices or when system reliability is jeopardized~~

WEQ/FERC Definition:

A temporary change, temporary or recurring, in electricity consumption by a Demand Resource in response to market or reliability conditions. For purposes of these standards Model Business Practices, Demand Response this definition does not include energy efficiency or permanent Load reduction.

Per Phil: Comment: Is the language above brad enough to be considered commodity neutral as to apply also to the retail gas markets? (BGE) – General enough to cover gas standards?

Definition of Program Administrator

An investor owned utility, governmental or ~~cooperative~~ cooperative utility or independent aggregator of demand response programs who has responsibility for developing and operating demand response programs identified in this standard. The Program Administrator shall have regulatory reporting responsibility to the utility regulatory body in the jurisdiction of the retail load and reporting responsibility to NERC.

Demand Response Provider

The entity that is responsible for delivering Demand reductions from Demand Resources.

* *Comment: The gGroup will work to ensure consistency between these two defintionsdefinitions.*

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Demand Response programs can be classified into two major categories, dispatchable and nondispatchable programs:

Dispatchable Programs

(Definition ??) Dispatchable programs ~~include~~ are programs that ~~require~~ allow a system operator (RTO system operator or a utility system operator) to declare a load response event that has a specific start time and end time. The measurement and verification process would determine the load reductions attributable to Demand Response programs over this specified time period. Examples of programs in this classification would be:

Comments: This is a working definition and will be reviewed for other changes.

Capacity Programs: *(Definition exists)*

(Need to define all terms)

Direct Load Control

Firm Service Level

~~Guarenteed~~ Guaranteed Load Drop

Critical Peak Pricing

~~Ancillary~~ Ancillary Service Programs:

Spinning Reserve

Non Spinning Reserve

Regulation Services *(Definition exists)*

Energy Service Programs – Dispatched for economic reasons

Non Dispatchable Programs

(Definition) Non Dispatchable programs include programs that have predetermined time periods where consumption patters are expected to change due to price signals or other incentives designed to induce lower electricity consumption, Examples of programs in this ~~classification~~ classification would be:

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Time ~~Sensitrive~~Sensitive Pricing Programs

Time of use

~~Critical~~Critical Peak Pricing

Real Time Pricing

For purposes of these Measurement and Verification standards, Demand Response does not include Measurement and Verification of energy efficiency or permanent Load reduction.

Business Practice Conflicts with the wholesale DR ~~standard and~~standard and NERC Standards:

This standard is designed to provide a framework for measurement and verification of demand ~~response~~response programs in the retail sector. It was designed in concert with NAESB standards covering demand response programs operating in the wholesale markets. In the event of a conflict between these business practices and business practices developed for the wholesale markets the wholesale ~~market~~market standard shall have precedence. Additionally, all entities supplying Demand Response Services shall comply with applicable NERC reliability standards.

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3. Overview of the Standards

These M&V standards establish criteria for the use of equipment, technology, and procedures to quantify the Demand Reduction Value delivered. Standards developed may include commonalities among product types. The following outline of standards is applicable to the two Demand Response product categories.

General	Advance Notification
	Deployment Time
	Reduction Deadline
	Release/Recall
	Normal Operations
	Demand Resource Availability Measurement
	Aggregation
	Transparency of Requirements
Telemetry	Telemetry Requirement
	Telemetry Accuracy
	Telemetry Interval
	Other Telemetry Measurements
	Communication Protocol
	Governor Control Equivalent
	On-Site Generation Telemetry Requirement
After-The-Fact Metering	After-the-Fact Metering Requirement

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	Meter Accuracy
	Details of Meter/Equipment Standards
	Meter Data Reporting Deadline
	Meter Data Reporting Interval
	Clock / Time Accuracy
	Validating, Editing & Estimating (VEE) Method
	On-Site Generation Meter Requirement
Performance Evaluation	Rules for Performance Evaluation

Performance Evaluation Methodology

For each Demand Response service, a performance evaluation methodology is used to determine the Demand Reduction Value provided by a Demand Resource. The standards include descriptions of acceptable Baselines and alternative performance measurements that are appropriate for each of the four types of Demand Response services. The table below provides an outline of the applicable criteria for performance evaluation methodologies.

Baseline Information	Baseline Window
	Calculation Type
	Sampling Precision and Accuracy
	Exclusion Rules
	Baseline Adjustments
	Adjustment Window
Event Information	Use of Real-Time Telemetry
	Use of After-The-Fact Metering
	Performance Window
	Measurement Type
Special Processing	Highly-Variable Load Logic
	On-Site Generation Requirements

These standards do not specify detailed characteristics of performance evaluation methodologies, but rather provide a framework that may be used to develop performance evaluation methodologies for specific Demand Response services. This approach is believed to be most appropriate at this time as development

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of performance ~~evaluation~~evaluation methodologies and baseline calculations continues to mature. The following methodology types are applicable to wholesale Demand Response Services:

~~(Rip Comment, Dominion – Additional specificity should be considered. We may want to add some specificity here. While performance methodologies are maturing, there are some reliable methodologies that we may want to identify and recommend)~~

Maximum Base Load: A performance evaluation methodology based solely on a Demand Resource's ability to ~~reduce to~~ not exceed a specified level of electricity demand, regardless of its electricity consumption or demand at Deployment. (~~example ?~~)Example?

Meter Before / Meter After: A performance evaluation methodology where electricity consumption or demand over a prescribed period of time prior to Deployment is compared to similar readings during the Sustained Response Period. (~~example ?~~)Example?

Baseline Type-I: A Baseline performance evaluation methodology based on a Demand Resource's historical interval meter data which may also include other variables such as weather and calendar data. (~~example ?~~)example?

Baseline Type-II: A Baseline performance evaluation methodology that uses statistical sampling to estimate the electricity consumption of an Aggregated Demand Resource where interval metering is not available on the entire population. (example ?)

Metering Generator Output: A performance evaluation methodology, used when a generation asset is located behind the Demand Resource's revenue meter, in which the Demand Reduction Value is based on the output of the generation asset.

Applicability of Performance Evaluation Methodology to Program Type

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Performance Evaluation Type	Maximum Base Load	Meter Before/Meter After	Baseline Type I	Baseline Type II	Metering Generator Output
Capacity Program					
Direct Load Control				X	
Firm Service Load	X				
Guaranteed Load Drop		X			
Critical Peak Pricing			X		
Ancillary Service Programs					
Spinning Reserve					X
Non-Spinning Reserves		X			X
Regulation Services		X			X
Time Sensitive Pricing Programs					
Time of Use			X		
Critical Peak Pricing			X		
Real Time Pricing			X		

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Definition of Terms

Dispatchable DEMAND RESPONSE EVENT TERMS

Illustration of Timing of a Demand Response Event

The illustration below represents the terms for timing events and time durations applicable to the ~~characteristics~~characteristics of a dispatchable Demand Response Event. The definitions of the ten elements in the illustration are the basis for describing the Timing of a Demand Response Event.

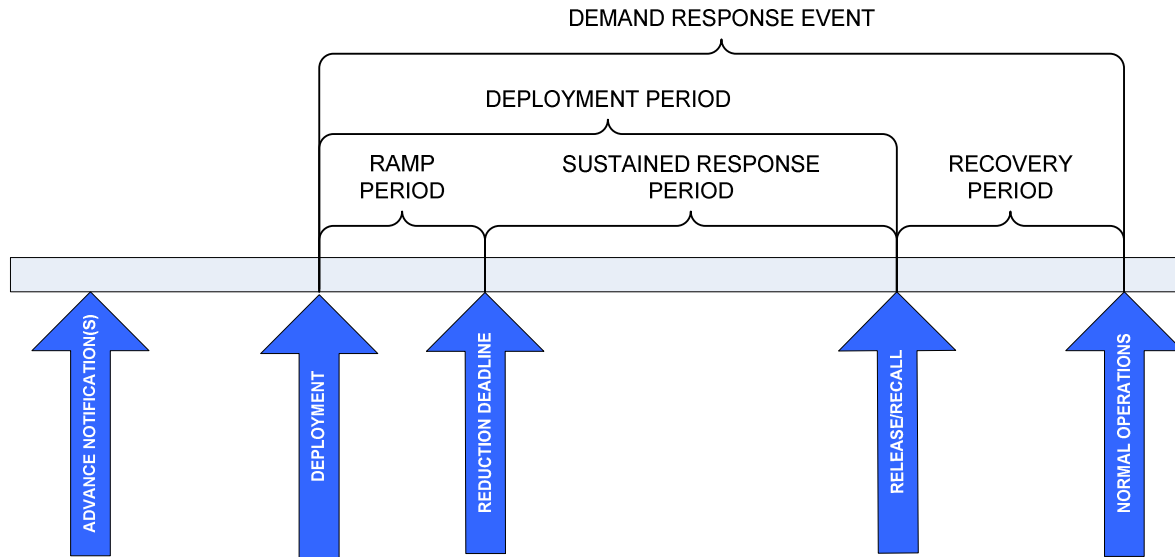


Figure 1111. Timing of a Demand Response Event

The following terms refer to the above Figure 1.

Advance Notification(s)

One or more ~~communications~~communications to Demand Resources of an impending Demand Response Event in advance of the actual event.

Demand Response Event

The time periods, deadlines and transitions during which Demand Resources perform. The System Operator shall specify the duration and applicability of a Demand Response Event. All deadlines, time periods and transitions may not be not applicable to all Demand Response products or services.

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Deployment

The time at which a Demand Resource begins reducing Demand on the system in response to an instruction.

Deployment Period

The time in a Demand Response Event beginning with the Deployment and ending with the Release/Recall.

Normal Operations

The time following Release/Recall at which a System Operator may require a Demand Resource to have returned its Load consumption to normal levels, and to be available again for Deployment.

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~~-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 System Operator or Demand Response Provider 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.

Non ~~Dispatchable~~Dispatchable Demand ~~Response~~Response Terms

(Comment, Dominion: Rip---Additional text need to add some verbage describing non dispatchable programs should be included and the group will add at a subsequent working session---will work on this later)

GENERAL TERMS

Adjustment Window

The period of time prior to a Demand Response Event used for calculating a Baseline adjustment.

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After-the-Fact Metering

Interval meter data separate from Telemetry that is used to measure Demand Response. May not apply to Demand Resources under ~~BaselineType~~Baseline Type II (Non-Interval Meter).

Aggregated Demand Resource

A group of independent Load facilities that provide Demand Response services as a single Demand Resource.

Applicable Regulatory Authority

The state regulatory agency or other local governing body that provides oversight, policy guidance, and direction to any parties involved in the process of providing energy to retail access Customers through regulation and orders.

Baseline

A Baseline is a method of estimating the electricity that would have been consumed by a Demand Resource in the absence of a Demand Response Event. ~~The Baseline is compared to the actual metered electricity consumption during the Demand Response Event to determine the Demand Reduction Value. Depending on the type of Demand Response product or service, Baseline calculations may be performed in real time or after the fact. The Program Administrator may offer multiple Baseline models and may assign a Demand Resource to a model based on the characteristics of the Demand Resource's Load or allow the Demand Resource to choose a performance evaluation model consistent with its load characteristics from a predefined list.~~ Figure 2. below illustrates the concept of Baseline relative to a Demand Response Event.

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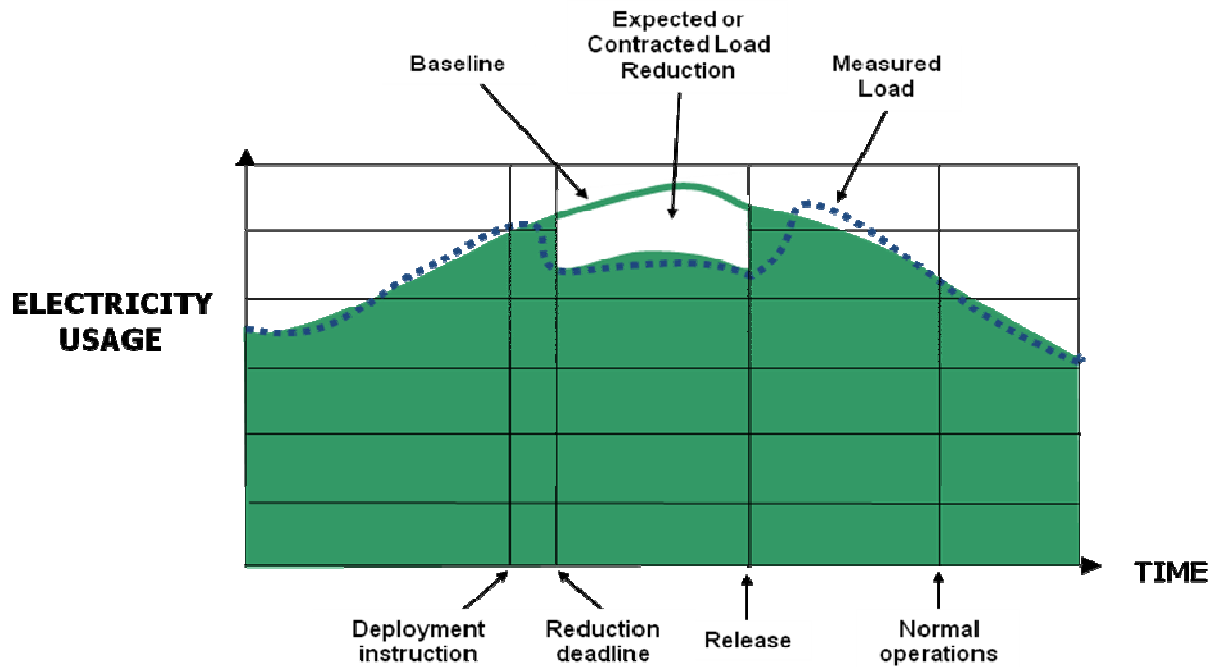


Figure 2. Illustration of Baseline Concept.

Baseline Adjustment

An adjustment that modifies the Baseline to reflect actual conditions immediately prior to or during a Demand Response Event to provide a better estimate of the energy the Demand Resource would have consumed but for the Demand Response Event. The adjustments may include but are not limited to weather conditions, near real time event facility Load, current Demand Resource operational information, or other parameters based on the System Operator's requirements.

Baseline Type-I (Interval Metered)

A Baseline performance evaluation methodology based on a Demand Resource's historical interval meter data which may also include other variables such as weather and calendar data.

Baseline Type-II (Non-Interval Metered)

A Baseline performance evaluation methodology that uses statistical sampling to estimate the electricity consumption of an Aggregated Demand Resource where interval metering is not available on the entire population.

Baseline Window

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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. The applicability of this term is limited to Meter Before/Meter After, and Baseline Type-I and Type-II.

Capacity Service

—A type of Demand Response service in which Demand Resources are obligated over a defined period of time to be available to provide Demand Response upon deployment by the System Operator.

Critical Peak Pricing:

Customer:

Any entity that takes gas and/or electric service for its own consumption.

Demand Resource Availability Measurement:

The amount of Load available to be dispatched for a given Demand Response Event.

Demand Response Event:

The time periods, deadlines and transitions during which Demand Resources perform. The System Operator shall specify the duration and applicability of a Demand Response Event. All deadlines, time periods and transitions may not be not applicable to all Demand Response products or services.

Demand Response Provider

The entity that is responsible for delivering Demand reductions from Demand Resources.

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Demand

The rate at which electric energy is delivered to or by a system or part of a system, generally expressed in kilowatts or megawatts, at a given instant or averaged over any designated interval of time; and the rate at which energy is being used by the customer (NERC Definition).

Demand Reduction Value

Quantity of reduced electrical consumption by a Demand Resource, expressed as MW or MWh.

Demand Resource

A Load or aggregation of Loads capable of measurably and verifiably providing Demand Response.

Demand Response

Changes in electric use by demand-side resources from their normal consumption patterns in response to changes in the price of electricity, or to incentive payments designed to induce lower electricity use at times of high wholesale market prices or when system reliability is jeopardized

Direct Load Control:

Distribution Company: A regulated entity which provides distribution services and may provide energy and/or transmission / transportation services in a given area.

Energy Service Service: A type of Demand Response service in which Demand Resources are compensated solely based on their performance during a Demand Response Event.

Firm Service Level:

Governing Documents: Documents that determine the interactions among parties, including but not limited to: regulatory documents (e.g., tariffs, rules, regulations), contractual agreements, and Distribution Company Operational Manuals.

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GuarenteedGuaranteed Load Drop

⋮

-

Highly-Variable Load

A Load with a fluctuating or unpredictable electricity consumption pattern.

Load

An end-use device or customer that receives power from the electric system (NERC Definition).

Market Participant:

A party engaged in the process of providing competitive retail energy to end-use Customers including, but not limited to, the Distribution Company, the Supplier, the Registration Agent, the settlement agent, and the meter reading entity.

Maximum Base Load

A performance evaluation methodology based solely on a Demand Resource's ability to ~~reduce~~ not exceed a specified level of electricity Demand, regardless of its electricity consumption or Demand at Deployment.

Measurement and Verification (M&V):

The Baseline is compared to the actual metered electricity consumption during the Demand Response Event to determine the Demand Reduction Value. Depending on the type of Demand Response product or service, Baseline calculations may be performed in real-time or after-the-fact. The Program Administrator may offer multiple Baseline models and may assign a Demand Resource to a model based on the characteristics of the Demand Resource's Load or allow the Demand Resource to choose a performance evaluation model consistent with its load characteristics from a predefined list.

Meter Before / Meter After

A performance evaluation methodology where electricity Demand over a prescribed period of time prior to Deployment is compared to similar readings during the Sustained Response Period.

Meter Data Recording Interval

The time between electricity meter consumption recordings.

Meter Data Reporting Deadline

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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).

Metering Generator Output

A performance evaluation methodology, used when a generation asset is located behind the Demand Resource's revenue meter, in which the Demand Reduction Value is based on the output of the generation asset.

Non-Spinning Reserve:

Performance Window

The period of time in a Demand Response Event analyzed by the System Operator 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.

Ramp Rate

The rate, expressed in megawatts per minute, that a generator changes its output. (NERC Definition) Demand Resource ramp rate is the rate, expressed in megawatts per minute, that a Demand Resource changes its Load.

Real Time Pricing

Regulation Service

A type of Demand Response service in which a Demand Resource increases and decreases Load in response to real-time signals from the System Operator. Demand Resources providing Regulation Service are subject to dispatch continuously during a commitment period. Provision of Regulation Service does not correlate to Demand Response Event timelines, deadlines and durations as depicted in Figure 1.

Spinning Reserve:

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System Operator

A System Operator is a Balancing Authority, Transmission Operator, or Reliability Coordinator whose responsibility is to monitor and control an electric system in real ~~time~~ ~~(time~~ (based on NERC definition). The System Operator is responsible for initiating Advance Notifications, Deployment, and Release/Recall instructions.

Telemetry

Real-time continuous communication between a Demand Resource or Demand Response Provider and the System Operator.

Telemetry Interval

The time unit between communications between a Demand Resource or Demand Response Provider ~~and~~ ~~a~~ and a System Operator.

Time-of-Use

Validation, Editing and Estimation

The process of taking raw meter data and performing validation and, as necessary, editing and estimation of corrupt or missing data, to create validated data. (VEE guidelines are published in the Edison Electric Institute’s Uniform Business Practices for Unbundled Electricity Metering, Volume Two, Published 12/05/00, http://www.naesb.org/REQ/req_form.asp) (Rip – should we refer to AEIC business practices here?)

Business Practice Requirements:

Provision of ~~Wholesale Electric~~ Demand Response ~~Energy~~ Products

Applicability

The Standard applies to any entity that administers retail Demand Response dispatchable Products.

Purpose

The purpose of this Standard is to ensure that regulatory commissions and participants in ~~retail electric~~ ~~retail electric~~ markets in which dispatchable demand ~~response products~~ response products are administered have access to ~~uniform information~~ uniform information that will enable them to report consistent values for measurement and verification of the programs.

015-1.0 GENERAL CHARACTERISTICS OF A DEMAND RESPONSE EVENT

- ~~Advance~~ event Advance Notification

RXQ.13.3.1 Where is this item, or are the numbers given to the proposed standards incorrect?

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~~_____ The Program Administrator shall specify any requirements for the Advance Notification instruction.~~

~~RXQ.13.3.1.1 Demand Response may be initiated through either a remote-activated switch or an on-site control such as an advanced thermostat or manual intervention.~~

~~RXQ.13.3.1.2 If a remote-activated switch is used, no Advance Notification is required prior to a Demand Response Event.~~

~~RXQ.13.3.1.3 If an on-site control is used, then an Advance Notification should be sent. The timing and number of the Advance Notification(s) should be specified in the Governing Documents.~~

- **Deployment Time**

~~The Program Administrator shall specify the time at which Demand Resources must begin reducing Demand on the system.~~

~~RXQ.13.3.1.4 Deployment of the Demand Resource will depend on the specific circumstance(s) of the Demand Response Event and should be specified by the Program Administrator in the Advance Notification.~~

- **Reduction Deadline**

~~The Program Administrator shall specify the Reduction Deadline.~~

~~RXQ.13.3.1.5 The Reduction Deadline will depend on the specific circumstance(s) of the Demand Response Event and should be specified by the Program Administrator in the Advance Notification.~~

~~RXQ.13.3.1.6 The requirement for a Ramp Period or a specified Ramp Rate will depend on the specific circumstance(s) of the Demand Response Event and should be specified by the Program Administrator in the Advance Notification.~~

- **Release/Recall**

~~The Program Administrator shall specify the time at which Demand Resources shall be instructed to begin restoring Load.~~

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RXQ.13.3.1.7 The Release / Recall will depend on the specific circumstance(s) of the Demand Response Event and should be specified by the Program Administrator.

- **Normal Operations**

~~The Program Administrator shall specify Normal Operations.~~

RXQ.13.3.1.8 Normal Operations will depend on the specific circumstance(s) of the Demand Response Event and the Recovery Period should be specified by the Program Administrator when the Release / Recall is sent.

- **Demand Resource Availability Measurement**

~~The Program Administrator shall specify any requirements for measuring the capability of a Demand Resource to meet its obligation.~~

~~-RXQ.13.3.1.9 The Demand Resource Availability Measurement is a Megawatt value and is calculated as the number of Direct Load Control units installed times the Operability Factor times the per unit reduction impact.~~

- **Aggregation**

~~The Program Administrator shall specify any requirements for aggregated Demand.~~

RXQ.13.3.1.10 Aggregation may be permitted and should be specified in the Governing Documents.

- **Transparency of Requirements**

~~Any specific requirements shall be defined in a System Operator's tariff, market rules, operating procedures, protocols or manuals and shall be posted in a publicly accessible location. (Rip - Not sure this is needed)~~

RXQ.13.3.1.11 All specific requirements for a Demand Response Event should be specified in the Governing Documents, thereby insuring transparency.

RXQ.13.3.1.11.1 All Customer specific data must remain confidential.

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RXQ.13.3.2 Direct Load Control Programs

RRXQ.13.3.2.1 Telemetry is not required for a Direct Load Control program.

RXQ.13.3.2.2 After-the-fact Measurements

RXQ.13.3.2.2.1 After-the-Fact Measurement Measurement is required and may be either by metering each individual site or by statistical sampling.

RXQ.13.3.2.2.2 Meter accuracy should meet or exceed industry standards or as specified by the Applicable Regulatory Authority.

RXQ.13.3.2.2.3 Meters and other equipment should meet or exceed industry standards equivalent to ANSI C12 or as specified by the Applicable Regulatory Authority.

RXQ.13.3.2.2.4 The Meter Data Reporting Deadline should be specified in the Governing Documents.

RXQ.13.3.2.2.5 The Meter Data Reporting Interval should be specified in the Governing Documents.

RXQ.13.3.2.2.6 The meter clock / time accuracy should meet or exceed industry standards equivalent to ANSI C12 or as specified by the Applicable Regulatory Authority.

RXQ.13.3.2.2.7 The method of Validating, Editing and Estimation should conform to an accepted methodology (such as the guidelines published in the current edition of the Edison Electric Institute's Uniform Business Practices for Unbundled Electricity Metering), and should be specified in the Governing Documents.

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RXQ.13.3.2.3 ~~Statistical~~Statistical Sampling

RXQ.13.3.2.3.1 Design the sample to meet program objectives.

RXQ.13.3.2.3.2 Define the population

RXQ.13.3.2.3.3 Specify the Frame (the listing of units available to be sampled is the sampling frame).

RXQ.13.3.2.3.4 The sample should achieve an accuracy of 90% confidence with 20% error, but be designed to achieve a minimum accuracy of 90% confidence with 10% error.

RXQ.13.3.2.3.5 Identify design (auxiliary) variables

RXQ.13.3.2.3.6 Choose sampling technique

RXQ.13.3.2.3.6.1 Choose stratification variable(s)

RXQ.13.3.2.3.6.2 Select allocation procedure

RXQ.13.3.2.3.6.3 Estimate means and variances of loads

~~RXXQ.13.3.2.3.6.4~~ Examine sample size requirements

RXQ.13.3.2.3.6.5 Select sampling techniques and design

RXQ.13.3.2.3.7 Determine sample size

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RXQ.13.3.2.8 Select the sample (identify those Customers to be in the sample)

RXQ.12.3.1.3.1 Determine alternate selection criteria (identify the criteria for selecting those Customers to be substituted for sample Customers who decline)

RXQ.12.3.1.3.2 Select sample and alternates

RXQ.12.3.1.3.3 Validate sample

RXQ.13.3.2.9 Implement the sample (contacting and enrolling the Customers to be in the sample, and installing the metering devices)

RXQ.13.3.3 Guaranteed Load Drop Programs

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015-1.1

**NO REVIEW HAS BEEN PERFORMED ON THIS SECTION – IT IS THE EXACT DUPLICATE OF THE
WHOLESALE ELECTRIC QUADRANT STANDARDS**

015-1.1015-1.0 TELEMETRY

- **Telemetry Requirement**

The Program Administrator shall specify any requirements for real time Telemetry, including, but not limited to: the use of real time Telemetry, the entity or entities responsible for installing and maintaining Telemetry equipment and collecting and communicating Telemetry data.

RXQ.13.3.3.1.1 Real time demand measurement may or may not be required.

RXQ.13.3.3.1.2 Real time energy measurement is required

- **On-Site Generation Telemetry**

If on-site generation is present behind the primary Telemetry point, real time Telemetry data shall be required to measure performance of the generator unless otherwise specified by the Program Administrator.

RXQ.13.3.3.1.7 Any on-site generation requirements should be specified in the Governing Documents.

- **Telemetry Accuracy**

The Program Administrator shall specify the accuracy of the real time Demand measurement to be expressed as a percentage of full scale, not to exceed 3.0%.

RXQ.13.3.3.1.3 Meter accuracy should meet or exceed industry standards or as specified by the Applicable Regulatory Authority.

- **Telemetry Interval**

The Program Administrator shall specify the Telemetry Interval at a value not to exceed 5 minutes.

RXQ.13.3.3.1.4 Reporting interval (the time between signals in seconds) should be specified in the Governing Documents.

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- **Other Telemetry Measurements**

~~The Program Administrator Operator shall specify any additional Telemetry data requirements.~~

RXQ.13.3.3.1.5 Other measurements (if other variables are measured, provide the list here; e.g. quality flags, breaker status, response amount, etc.) should be specified in the Governing Documents.

- **Communication Protocol**

~~The Program Administrator shall specify the Telemetry communication protocol.~~

RXQ.13.3.3.1.6 All communication protocols should be specified in the Governing Documents.

- **Governor Control Equivalent**

~~Not applicable-applicable.~~

015-1.2015-1.1 AFTER-THE-FACT METERING

- **After-the-Fact Metering Requirement**

After-the-Fact Metering is required unless otherwise specified by the Program Administrator.

RXQ.13.3.3.2.1 After-the-fact measurement measurement is required.

- **Meter Accuracy**

~~The Program administrator shall specify the accuracy of the After the Fact Metering not to exceed 3% of full scale.~~

RXQ.13.3.3.2.2 Meter accuracy should meet or exceed industry standards or as specified by the Applicable Regulatory Authority.

- **Details of Meter/Equipment Standards**

~~Meter/Equipment standards shall meet or exceed industry standards equivalent to ANSI C12 unless otherwise specified by the Program Administrator.~~

RXQ.13.3.3.2.4 Meters and other equipment should meet or exceed industry standards equivalent to ANSI C12 or as specified by the Applicable Regulatory Authority.

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- **Meter Data Reporting Deadline**

The Program administrator shall specify the Meter Data Reporting Deadline.

- **Meter Data Reporting Interval**

The Program administrator shall specify the Meter Data Reporting Interval at a value not to exceed 1 hour.

- **Clock / Time Accuracy**

~~The Program Administrator shall specify the clock and time accuracy. Clock and time meter/equipment standards shall meet or exceed industry standards equivalent to ANSI C12 unless otherwise specified by the System Operator.~~

RXQ.13.3.3.2.3 Clock / time accuracy

RXQ.13.3.3.2.3.1 The meter clock / time accuracy should meet or exceed industry standards equivalent to ANSI C12 or as specified by the Applicable Regulatory Authority.

RXQ.13.3.3.2.3.2 Time should be recorded in local time unless the population spans more than one time zone. In that event, the predominate time should be used and the other time zone(s) should be converted to the selected time zone.

- **Validating, Editing & Estimating (VEE) Method**

The Program Administrator shall specify VEE requirements.

RXQ.13.3.3.2.5 Validating, editing and estimating (VEE) (how missing data is managed:- e.g. skipped, estimated & flagged, etc.)

- **On-Site Generation Meter Requirement**

The Program administrator shall specify additional metering requirements if on-site generation is present behind the primary metering point.

015-1.3015-1.2 PERFORMANCE EVALUATION

- **Rules for Performance Evaluation**

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Performance shall be evaluated through the use of one of the following methods unless otherwise specified by the Program Administrator:

- Maximum Base Load
- Meter Before / Meter After
- Baseline Type-I
- Baseline Type-II
- Metering Generator Output

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Business Practice Requirements

Maximum Base Load Evaluation

015-1.4015-1.3 BASELINE INFORMATION

There are no Baseline calculations defined for Maximum Base Load evaluations. The Maximum Base Load Evaluation methodology shall be associated with a ~~demand reduction~~maximum demand obligation compared to the Demand Resource's average Load or as specified by the Program Administrator.

015-1.5015-1.4 EVENT INFORMATION

- **Use of Real-Time Telemetry**

The Program administrator shall specify if real-time Telemetry data is to be used to measure performance.

- **Use of After-The-Fact Metering**

After-the-fact metering shall be used to measure performance, unless otherwise specified by the Program Administrator.

- **Performance Window**

The Performance Window shall be the Sustained Response Period (Reduction Deadline through Release/Recall) unless otherwise specified by the Program administrator.

- **Measurement Type**

During the Performance Window, the Demand Resource must maintain its electricity consumption at or below the Maximum Base Load. The criteria used to evaluate performance shall be one of the following unless otherwise specified by the Program Administrator:

- a) Peak Demand
- b) Average Demand

015-1.6015-1.5 SPECIAL PROCESSING

The Program Administrator shall specify any special processing rules.

Business Practice Requirements

Meter Before / Meter After

015-1.7015-1.6 BASELINE INFORMATION

- **Baseline Window**

The Program Administrator shall specify the Baseline Window.

- **Calculation Type**

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During the Baseline Window, the energy consumption or Demand of the Demand Resource shall be evaluated using one of the following measurements unless otherwise specified by the Program Administrator:

- a) Instantaneous
- b) Maximum
- c) Average

- **Sampling Precision and Accuracy**

Sampling is not permitted for this performance evaluation type, unless otherwise specified by the Program Administrator.

- **Exclusion Rules**

The Program Administrator shall specify any exclusion rules.

- **Baseline Adjustments**

The Program Administrator shall specify any event-day adjustments.

- **Adjustment Window**

No Adjustment Window is used for this model unless otherwise specified by the Program Administrator.

015-1.8015-1.7 EVENT INFORMATION

- **Use of real-time Telemetry**

The Program Administrator shall specify if real-time Telemetry data is to be used to measure performance.

- **Use of After-The-Fact Metering**

After-the-fact metering shall be used to measure performance, unless otherwise specified by the Program Administrator.

- **Performance Window**

The Performance Window shall be the Sustained Response Period (Reduction Deadline through Release/Recall) unless otherwise specified by the Program Administrator.

- **Measurement Type**

During the Performance Window, the Demand Resource shall be evaluated using one of the following measurements unless otherwise specified by the Program Administrator:

- a) Instantaneous
- b) Maximum
- c) Average

015-1.9015-1.8 SPECIAL PROCESSING

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- **Highly-Variable Load Logic**

The Program Administrator shall specify any performance evaluation requirements for Highly-Variable Loads.

- **On-Site Generation Requirements**

The Program Administrator shall specify any performance evaluation requirements for on-site generation.

Business Practice Requirements

Baseline Type-I (Interval Meter)

015-1.10015-1.9 BASELINE INFORMATION

- **Baseline Window**

The Program Administrator shall specify the Baseline Window.

- **Calculation Type**

The Program Administrator shall specify the method of developing the Baseline value using, but not limited to, the following calculation types:

- a) Maximum
- b) Average
- c) Regression

- **Sampling Precision and Accuracy**

Sampling is not permitted for this Performance Evaluation type, unless otherwise specified by the Program Administrator.

- **Exclusion Rules**

The Program Administrator shall specify any rules for excluding data from the Baseline Window. Exclusion rules may be based on, but are not limited to the following:

- a) Historical Demand Response Events
- b) Testing/Audit Periods
- c) Calendar data
- d) Outages
- e) Weather emergencies or force majeure events
- f) Usage threshold
- g) Known, discrete load additions or reductions that have occurred during the Baseline Window

- **Baseline Adjustments**

The Program Administrator shall specify any rules for Baseline Adjustments. Adjustment rules may be based on, but are not limited to the following:

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- a) Temperature
- b) Humidity
- c) Calendar data
- d) Sunrise/Sunset time
- e) Event day operating conditions

- **Adjustment Window**

The Program Administrator shall specify the Adjustment Window.

015-1.11015-1.10 **EVENT INFORMATION**

- **Use of Real-Time Telemetry**

The Program Administrator shall specify if real-time Telemetry data is to be used to measure performance.

- **Use of After-The-Fact Metering**

After-the-fact metering shall be used to measure performance, unless otherwise specified by the Program Administrator.

- **Performance Window**

The Program Administrator shall specify the Performance Window.

- **Measurement Type**

During the Performance Window, the Demand Resource shall be evaluated using one of the following measurements unless otherwise specified by the Program Administrator:

- a) Maximum
- b) Average
- c) Regression

015-1.12015-1.11 **SPECIAL PROCESSING**

- **Highly-Variable Load Logic**

The Program Administrator may specify performance evaluation requirements for Highly-Variable Loads.

- **On-Site Generation Requirements**

The Program Administrator may specify performance evaluation requirements for on-site generation.

Business Practice Requirements

Baseline Type-II (Non-Interval Meter)

015-1.13015-1.12 **BASELINE INFORMATION**

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- **Baseline Window**

The Program Administrator shall specify the Baseline Window.

- **Calculation Type**

The Program Administrator shall specify the method of developing the Baseline value using, but not limited to, the following calculation types:

- a) Maximum
- b) Average
- c) Regression

- **Sampling Precision and Accuracy**

The Program Administrator shall specify sampling precision and accuracy requirements.

- **Exclusion Rules**

The Program Administrator shall specify any rules for excluding data from the Baseline Window. Exclusion rules may be based on, but are not limited to the following:

- a) Historical Demand Response Events
- b) Testing/Audit Periods
- c) Calendar data
- d) Outages
- e) Weather emergencies or force majeure events
- f) Usage threshold
- g) Known, discrete load additions or reductions that have occurred during the Baseline Window

- **Baseline Adjustments**

The Program Administrator shall specify any rules for Baseline Adjustments. Adjustment rules may be based on, but are not limited to the following:

- a) Temperature
- b) Humidity
- c) Calendar data
- d) Sunrise/Sunset time
- e) Event day operating conditions

- **Adjustment Window**

The Program Administrator shall specify the Adjustment Window.

015-1.14015-1.13 **EVENT INFORMATION**

- **Use of Real-Time Telemetry**

The Program Administrator shall specify if real-time Telemetry data is to be used to measure performance.

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- **Use of After-The-Fact Metering**

After-the-fact metering or other energy measurement technology shall be used to measure performance, as a supplement to real-time Telemetry unless otherwise specified by the Program Administrator.

- **Performance Window**

The Program Administrator shall specify the Performance Window.

- **Measurement Type**

During the Performance Window, the Demand Resource shall be evaluated using one of the following measurements unless otherwise specified by the Program Administrator:

- a) Maximum
- b) Average
- c) Regression

015-1.15015-1.14 **SPECIAL PROCESSING**

The Program Administrator shall specify any special processing rules.

Business Practice Requirements

Metering Generator Output

015-1.16015-1.15 **BASELINE INFORMATION**

The Program Administrator shall ~~specify Baselines~~specify Baseline calculations for ~~Metering Generator~~Metering Generator Output.

015-1.17015-1.16 **EVENT INFORMATION**

- **Use of Real-Time Telemetry**

The Program Administrator shall specify if real-time Telemetry data is to be used to measure performance.

- **Use of After-The-Fact Metering**

After-the-fact metering on the generator and optionally on the associated Load shall be used to measure performance unless otherwise specified by the Program Administrator.

- **Performance Window**

The Program Administrator shall specify the Performance Window.

- **Measurement Type**

During the Performance Window, the Demand Resource shall be evaluated using the total measured generation output unless otherwise specified by the Program Administrator.

015-1.18015-1.17 **SPECIAL PROCESSING**

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The Program Administrator shall specify any special processing rules.



North American Energy Standards Board

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NAESB UPDATE: VERSION 1.1 -- RETAIL
MARCH 20, 2009

THE FINAL ACTIONS TO BE APPLIED TO RETAIL VERSION 1 TO CREATE RETAIL VERSION 1.1:

Version 1 was published on September 27, 2005.

2005:

- **Recommendation R04030:** Add a new data element to the Internet Electronic Transport (Internet ET) “refnum-orig”: http://www.naesb.org/member_login_form.asp?doc=fa_req_rgq_r04030.doc - (Ratified 9/26/05).
- **Retail Gas Quadrant Annual Plan Item 6 and Retail Electric Quadrant Annual Plan Item 6:** Establish the Quadrant specific EDM (QEDM) standards for REQ and RGQ:
http://www.naesb.org/member_login_form.asp?doc=fa_2005_req_rgq_ap6_r2qedm.doc - (Ratified 9/26/05).

2006:

- **Recommendation R05013:** Develop a model electric retail contract:
http://www.naesb.org/member_login_form.asp?doc=fa_retail_r05013.pdf - (Ratified 01/07/07).
Attachment 1: http://www.naesb.org/member_login_form.asp?doc=fa_retail_r05013a1.doc
Attachment 2: http://www.naesb.org/member_login_form.asp?doc=fa_retail_r05013a2.doc
- **Retail 2006 Annual Plan Item 4(i):** Customer Enrollment model business practices:
http://www.naesb.org/member_login_form.asp?doc=fa_2006_retail_ap4i.doc - (Ratified 01/07/07).

2007:

- **2005 Annual Plan Item 3:** “Customer Information:
http://www.naesb.org/member_login_form.asp?doc=fa_2005_retail_ap3.doc - (Ratified August 20, 2007).
- **Recommendation for Retail 2007 Annual Plan Item 3a(ii)** - Customer Drop:
http://www.naesb.org/member_login_form.asp?doc=fa_2007_retail_ap3a_ii.doc - (Ratified August 20, 2007)
- **Recommendation for Retail 2007 Annual Plan Item 1(a)** – Additional Billing and Payment MBPs:
http://www.naesb.org/member_login_form.asp?doc=fa_2007_retail_ap1a.doc – (Ratified August 20, 2007)
Attachment to Recommendation:
http://www.naesb.org/member_login_form.asp?doc=fa_2007_retail_ap1a_attachment.doc
- **Recommendation R05016** - Standards or model business practices for electronic retail billing transactions and bill payment transactions between customers, suppliers, and utilities:
http://www.naesb.org/member_login_form.asp?doc=fa_r05016.doc - (Ratified August 20, 2007)

2008:

- **Recommendation for 2007 Retail Annual Plan Item 3a(iii)** - Account Information Change:
http://www.naesb.org/doc_view2.asp?doc=retail_rat010808_2007_retail_ap3a_iii_rec.doc – (Ratified February 8, 2008)
- **Recommendation for 2007 Retail Annual Plan Item 5** - Customer Information:
http://www.naesb.org/doc_view2.asp?doc=retail_rat010808_2007_retail_ap5_rec.doc – (Ratified February 8, 2008)



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NAESB UPDATE: VERSION 1.1 -- RETAIL
MARCH 20, 2009

- **Recommendation for 2007 Retail Annual Plan Item 5** - Customer Information (Information Requirements and Technical Electronic Implementation Model Business Practices):
http://www.naesb.org/doc_view2.asp?doc=retail_rat010808_2007_retail_ap5_ir_teis_rec.doc – (Ratified February 8, 2008)
- **R05016A Final Action** - Standards or model business practices for electronic retail billing transactions and bill payment transactions between customers, suppliers, and utilities:
http://www.naesb.org/member_login_form.asp?doc=fa_r05016a.doc – (Ratified June 22, 2008)
- **2008 Retail Annual Plan Item 3(i), (ii), (iii) Final Action** - Customer Enrollment, Drop and Account Information Change Using a Registration Agent:
http://www.naesb.org/member_login_form.asp?doc=fa_2008_retail_api_3_i_ii_iii.doc – (Ratified June 22, 2008)

Attachment to Recommendation:
http://www.naesb.org/member_login_form.asp?doc=fa_2008_retail_api_3_i_ii_iii_attach.ppt
- **2007 WGQ Annual Plan Item 3/2007 Retail Annual Plan Item 9 Final Action** - Develop or amend WGQ technical standards, as appropriate, to address the DOE Sandia National Laboratories 2006 surety assessment findings and recommendations (WGQ)/Address issues raised in the Department of Energy's Sandia National Laboratories on NAESB technical standards and respond to the surety assessment finding and recommendations (REQ/RGQ): http://www.naesb.org/member_login_check.asp?doc=fa_2007_wgq_ap_3_2007_retail_ap_9.doc – (Ratified July 11, 2008)
- **2008 Retail Annual Plan Item 2a, Part 1** - Customer Enrollment, Drop and Account Information Change including Using a Registration Agent (Technical X12 Implementation Guidelines):
http://www.naesb.org/member_login_form.asp?doc=retail_rat021009_retail_2008_api2a_part1_rec.doc – (Ratified March 13, 2009)
- **2008 Retail Annual Plan Item 2a, Part 2** - Customer Enrollment, Drop and Account Information Change including Using a Registration Agent (Data Dictionaries):
http://www.naesb.org/member_login_form.asp?doc=retail_rat021009_retail_2008_api2a_part2_rec.doc – (Ratified March 13, 2009)
- **2008 Retail Annual Plan Item 3(iv) and (v), Part 1** - ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Model Business Practices) and Attachment:
http://www.naesb.org/member_login_form.asp?doc=retail_rat021009_retail_2008_api3iv_v_part1_rec_clean.doc – (Ratified March 13, 2009)

Attachment to Recommendation:
http://www.naesb.org/member_login_form.asp?doc=retail_rat021009_retail_2008_api3iv_v_part1_rec_ach.ppt
- **2008 Retail Annual Plan Item 3(iv) and (v), Part 2** - ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries):
http://www.naesb.org/member_login_form.asp?doc=retail_rat021009_retail_2008_api3iv_v_part2_rec.doc - (Ratified March 13, 2009)
- **Recommendation 2009 Retail Annual Plan Item 1 / R05016** – Develop Technical Electronic Implementation Standards and Data Dictionaries (Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions): http://www.naesb.org/pdf4/retail_2009_api1_r05016_rec.doc - (Out for Formal Comments – Due April 1, 2009)



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**NAESB UPDATE: VERSION 1.1 -- RETAIL
MARCH 20, 2009**

- **R08015/2009 WGQ Annual Plan Item 2.b/2009 Retail Annual Plan Item 5** – 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): http://www.naesb.org/pdf4/r08015_rec.doc
 - Exhibit “A”: http://www.naesb.org/pdf4/r08015_rec_attach1.doc (clean)
http://www.naesb.org/pdf4/r08015_rec_attach2.doc (redline)
 - Exhibit “B”: http://www.naesb.org/pdf4/r08015_rec_attach3.doc
 - Exhibit “C”: http://www.naesb.org/pdf4/r08015_rec_attach4.doc
 - Exhibit “D”: http://www.naesb.org/pdf4/r08015_rec_attach5.doc (clean)
http://www.naesb.org/pdf4/r08015_rec_attach6.doc (redline)
 - Exhibit “E”: http://www.naesb.org/pdf4/r08015_rec_attach7.doc (clean)
http://www.naesb.org/pdf4/r08015_rec_attach8.doc (redline)
 - Exhibit “F”: http://www.naesb.org/pdf4/r08015_rec_attach9.doc (clean)
http://www.naesb.org/pdf4/r08015_rec_attach10.doc (redline)

(Out for Formal Comments – Due April 13, 2009)

MINOR CORRECTIONS:

- **Request for Comment** on the following two minor corrections adopted by the REQ and RGQ EC on May 10, 2006:
[Minor Correction to NAESB Internet Electronic Transport Implementation Manual](#)
[Minor Correction to Trading Partner Agreement](#)
- **Request for Comment** on the following minor correction adopted by the WGQ, REQ and RGQ EC's on January 4, 2008:
[Minor Correction to NAESB WGQ / REQ / RGQ Internet Electronic Transport \(Standard No. 10.3.7\)](#)
- **Request for Comment** on the following minor correction adopted by the REQ and RGQ EC's on November 5, 2008:
[Minor Corrections to be incorporated in NAESB Retail Gas Quadrant and Retail Electric Quadrant, Version 1, Model Business Practices](#)
[Comments Due December 1, 2008](#)
- **Request for Comment** on the following minor correction adopted by the REQ and RGQ EC's on February 4, 2009:
[Minor Corrections to be incorporated in NAESB Retail Gas Quadrant and Retail Electric Quadrant, Version 1, Model Business Practices](#)
[Comments Due March 11, 2009](#)
[Attachment to Minor Corrections - Models \(Redline\)](#)
[Attachment to Minor Corrections - Models \(Clean\)](#)

TIMELINE:

- Version 1.1 publication date was originally scheduled for yearend 2007, but has now been scheduled for 2nd quarter 2009 (refer to [November Retail EC Minutes](#)) to permit the registration model.



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**NAESB UPDATE: VERSION 1.1 -- RETAIL
MARCH 20, 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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NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WGQ Annual Plan Adopted by the NAESB WGQ EC on February 5, 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: Underway	2 nd 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: Underway	1 st 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: Underway	2 nd Q, 2009	Joint Retail BPS/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. <u>This is also an issue on which NAESB can develop standards to ensure that such releases can be processed quickly and efficiently.</u> " (emphasis added)		
i.) Prepare fully staffed recommendation Status: Underway (This item is being developed in conjunction with Items 4.a and 4.b)	2 nd Q, 2009	BPS, IR/Technical
b. Provide for Enhanced Granularity for Public Utilities in Identifying Critical Operational Flow Orders. (R08020) Status: Not Started (Completion Date to be determined on February 5, 2009)	TBD	BPS jointly with WEQ BPS
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: Underway (This item is being developed in conjunction with Item 3.a.i)	2 nd Q, 2009	BPS/Interpretations
b. Prepare fully staffed recommendation Status: Underway (This item is being developed in conjunction with Item 3.a.i)	2 nd Q, 2009	BPS, Interpretations, IR and Technical



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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 WGQ Annual Plan Adopted by the NAESB WGQ EC on February 5, 2009

Item Description	Completion ⁱ	Assignment ⁱⁱ
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: Not Started (Dependent on conclusion of Item 4)	3 rd Q, 2009	IR/Technical
b. Develop Business Practice Standards as appropriate Status: Not Started (Adjustments may be made to Completion Dates based on report from Item 5.a)	3 rd 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)	1 st 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 1 st Q, 2009 after which a Completion Date will be set)	2009	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	1 st Q, 2009	BPS
b. Prepare fully staffed recommendation Status: Not started	2 nd 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	1 st Q, 2009	BPS
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	1 st Q, 2009	EDM



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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 WGQ Annual Plan Adopted by the NAESB WGQ EC on February 5, 2009

Item Description	Completionⁱ	Assignmentⁱⁱ
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

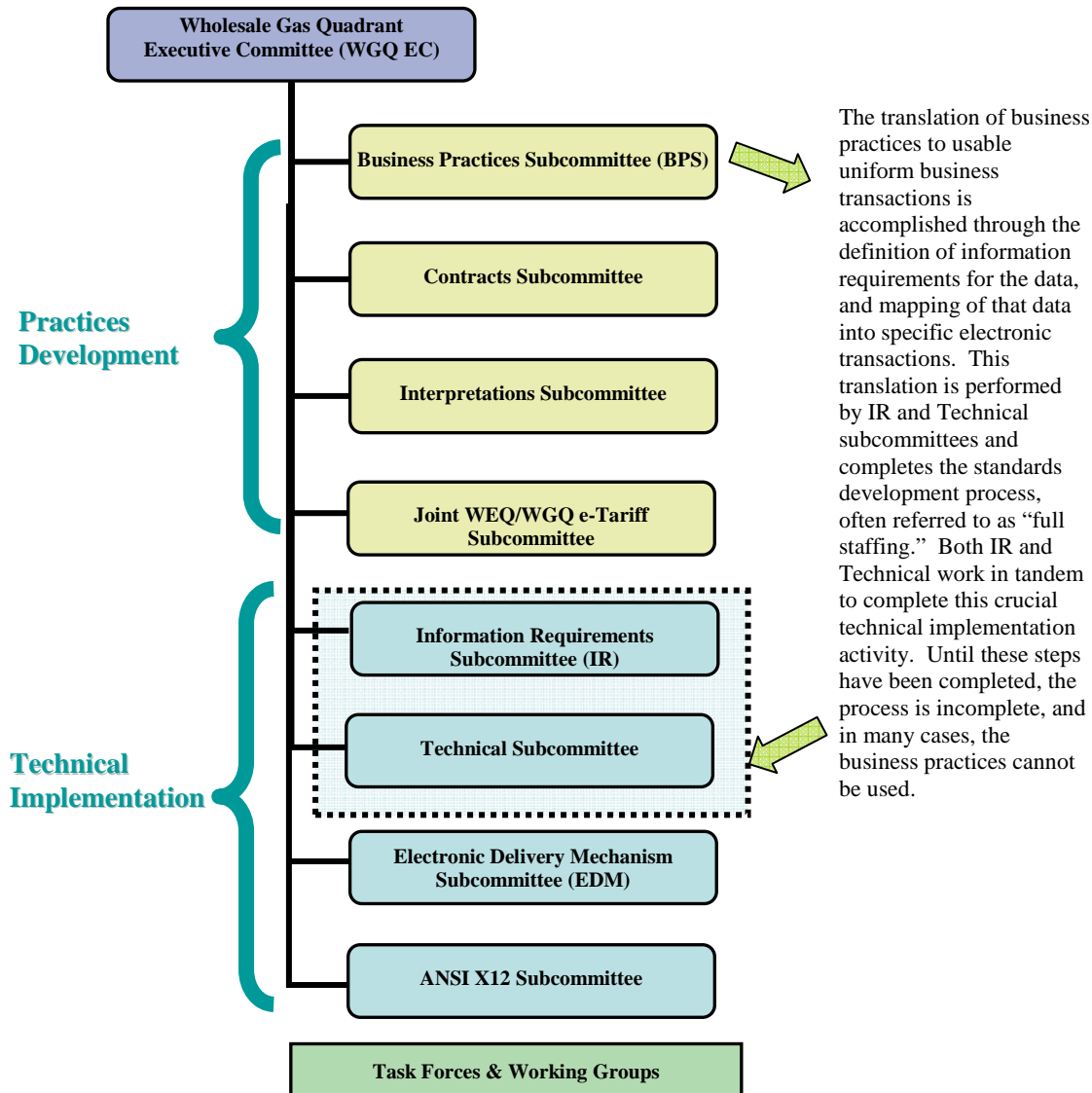
Provisional Activities

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
Adopted by the NAESB Retail Executive Committees on February 4, 2009**

Item Number & Description ⁱ	Completion ⁱⁱ	Assignment ⁱⁱⁱ
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: Underway	2 nd Q, 2009	TEIS
2. Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 8: Customer Information Status: Underway	2 nd 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: Underway	2 nd 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: Underway 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: Not Started	2 nd Q, 2009	BPS
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.	4 th Q, 2009	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 (examples still to be provided)	4 th 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: Not Started (Scope to be initiated in 2 nd Q, 2009, after which a completion date will be set)	Phase 2	WEQ Section of the Joint WEQ/REQ DSM Subcommittee



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**NORTH AMERICAN ENERGY STANDARDS BOARD
2009 ANNUAL PLAN for the RETAIL GAS and ELECTRIC QUADRANTS
Adopted by the NAESB Retail Executive Committees on February 4, 2009**

Item Number & Description ⁱ	Completion ⁱⁱ	Assignment ⁱⁱⁱ
c. Develop preamble for business practice standards for measurement and verification for demand response and energy efficiency programs. Status: Underway	3 rd Q, 2009	Joint WEQ/REQ DSM Subcommittee
d. Develop glossary for business practice standards Status: Underway	3 rd Q, 2009	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: Underway	2 nd 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: Not Started (Scope to be initiated in 2 nd Q, 2009, after which a completion date will be set)	Phase 2*	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: Not Started (Scope to be initiated in 2 nd Q, 2009, after which a completion date will be set)	Phase 2*	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: Not Started (Scope to be initiated in 2 nd Q, 2009 at the earliest. Upon conclusion of the scoping statement it will be determined whether NAESB standards development is appropriate)	Phase 2*	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: Underway	2 nd 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	2 nd Q, 2009	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: Not Started	2 nd Q, 2009	BPS

* These items may be moved to Provisional Activities



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**NORTH AMERICAN ENERGY STANDARDS BOARD
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Item Number & Description ⁱ	Completion ⁱⁱ	Assignment ⁱⁱⁱ
<p>9. Model Business Practices User Guide</p> <p>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</p> <p>Status: Not Started</p>	3 rd Q, 2009	BPS
<p>10. Additional Registration Agent Processes</p>		
<p>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</p> <p>Status: Not Started</p>	4 th Q, 2009	BPS
<p>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</p> <p>Status: Not Started</p>	4 th Q, 2009	BPS
<p>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.</p> <p>Status: Not Started</p>	4 th Q, 2009	BPS
<p>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</p> <p>Status: Not Started</p>	4 th Q, 2009	BPS
<p>11. Supplier Certification</p> <p>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</p> <p>Status: Not Started</p>	4 th Q, 2009	BPS
<p>12. Supplier Marketing Practices</p> <p>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.</p> <p>Amongst the topics to be considered for inclusion on the statement would be the following:</p> <ul style="list-style-type: none"> • 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 Supplier marketing activities. <p>Status: Not Started</p>	4 th Q, 2009	BPS



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**NORTH AMERICAN ENERGY STANDARDS BOARD
2009 ANNUAL PLAN for the RETAIL GAS and ELECTRIC QUADRANTS
Adopted by the NAESB Retail Executive Committees on February 4, 2009**

Item Number & Description ⁱ	Completion ⁱⁱ	Assignment ⁱⁱⁱ
Program of Standards Maintenance & Fully Staffed Standards Work^{iv}		
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.

Retail Gas Quadrant Effort Only:

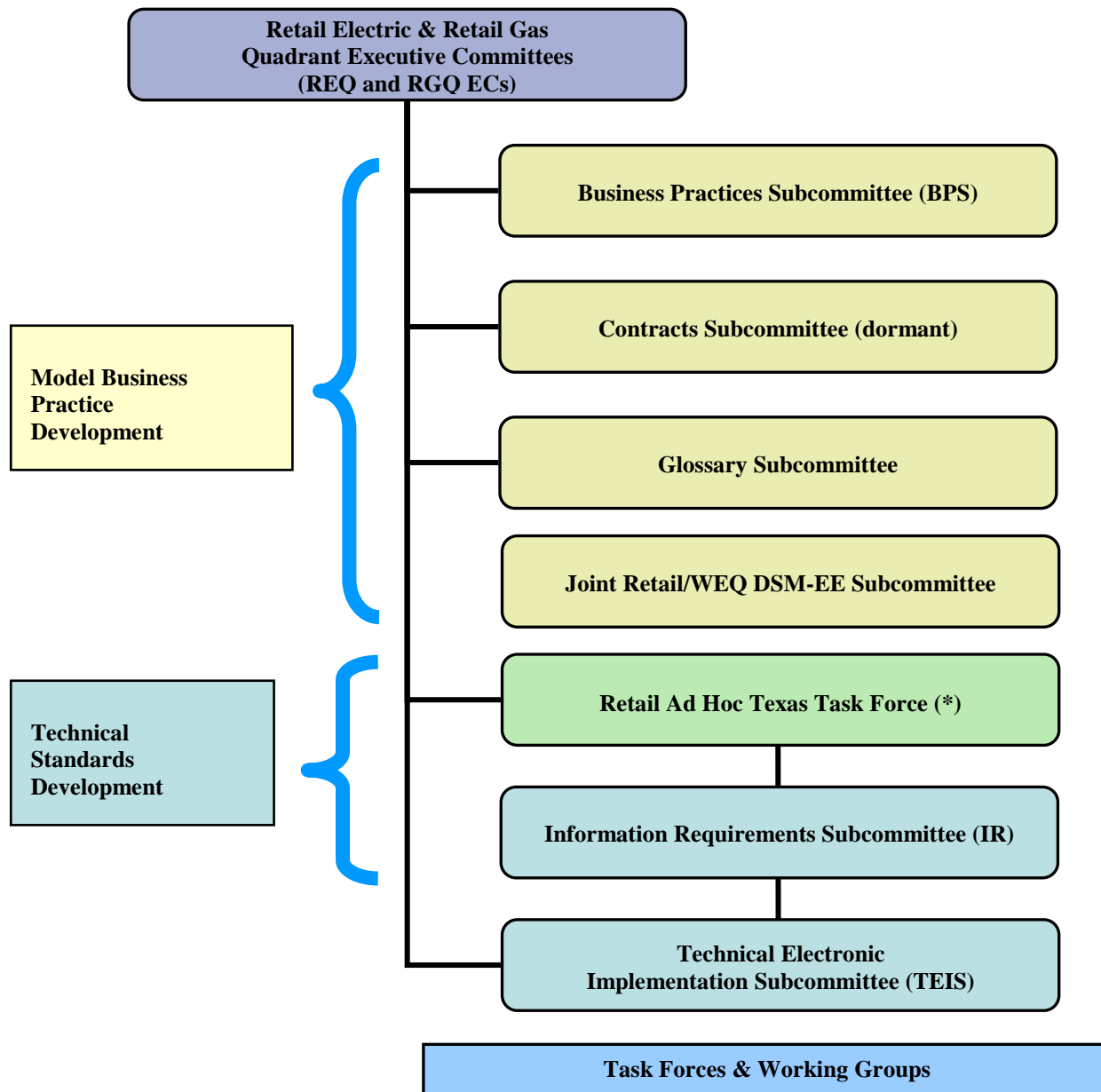
Examine Wholesale Gas Quadrant Non-EDM Standards for applicability to retail business practices.

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



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NAESB Retail Subcommittee Leadership: ^v

- 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), Jennifer Teel (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.



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Retail 2009 Annual Plan End Notes:

ⁱ 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.

ⁱⁱ 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.

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

^{iv} 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.

^v 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

2009 WEQ Annual Plan Approved by the WEQ EC with changes made by the JISWG on March 11, 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) 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: Underway	3 rd Q, 2009	JISWG
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 2 nd Q, 2009. Upon approval of the SAR and NAESB action on this item, consideration should be given to provisional item 4. Status: Not Started	4 th Q, 2009	BPS
ii) Update WEQ-008 Appendix D to include the Market Flow Threshold Percentage recommended by NERC working group/task force Status: Not Started (dependent on successful field test - expected Oct. 2009) Upon receipt of recommendation, completion date may be adjusted.	4 th 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	1 st Q, 2009	JISWG
d) Time Error and Inadvertent (BAL-004 and BAL-006) Coordination with NERC Status: Not Started (Upon initiation of this item by NAESB, a completion date will be determined. The date of 2011 is based on a completion date provided in the NERC BAC project schedule which includes extensive field testing and diverse proposed TIMTF directions to be reconciled in subcommittee meetings.)	2011	TIMTF
e) DCS and AGC (BAL-002 and BAL-005) Coordination with NERC Status Not Started (Upon initiation of this item by NAESB, a completion date will be determined. The date of 2011 is based on a completion date provided in the NERC BAC project schedule which includes extensive field testing and diverse proposed TIMTF directions to be reconciled in subcommittee meetings.)	2011	TIMTF



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NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WEQ Annual Plan Approved by the WEQ EC with changes made by the JISWG on March 11, 2009

Item Description	Completion ¹	Assignment ²
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	3 rd Q, 2009	ESS/ITS
Status: Underway		
2. Ability to Query Requests to Designate and Terminate Network Resources and Allow for Queries of All Information Provided with Designation Requests	3 rd Q, 2009	ESS/ITS
Status: Underway		
3. Masking of Designated Network Resource Operating Restrictions and Generating Cost Information	3 rd Q, 2009	ESS/ITS
Status: Underway		
4. Procedural Requirements for Submitting Designations over new OASIS Functionality	3 rd Q, 2009	ESS/ITS
Status: Underway		
5. Specify How Designated Network Service Informational Postings are Posted on OASIS	3 rd Q, 2009	ESS/ITS
Status: Underway		
6. Develop standards for the treatment of OASIS Requests when the Customer Fails to Provide the Necessary Attestation	3 rd Q, 2009	ESS/ITS
Status: Underway		
7. Procedural Requirements for Submitting Both Temporary and Indefinite Terminations of Network Resources	3 rd Q, 2009	ESS/ITS
Status: Underway		
8. Procedures for Submitting and Processing Requests for Concomitant Evaluations of Transmission Requests and Temporary Terminations	3 rd Q, 2009	ESS/ITS
Status: Underway		



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NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WEQ Annual Plan Approved by the WEQ EC with changes made by the JISWG on March 11, 2009

	Item Description	Completion ¹	Assignment ²
ii)	Group 4: Pre-Emption; Request No. R05019; and Revisions to Standard 9.7		
	1. Pre-Emption Status: Not Started	4 th Q, 2009	ESS/ITS
	2. Request No. R05019 Status: Not Started	4 th Q, 2009	ESS/ITS
	3. Modify WEQ-001-9.7 Rollover Rights for Redirect on a Firm Basis Status: Underway	1 st Q, 2009	ESS/ITS
iii)	Group 5: Paragraph 1377		
	1. Paragraph 1377 Status: Not Started	4 th Q, 2009	ESS/ITS
	2. Re-Bid Of Partial Service across Multiple Transmission Providers' Systems Status: Not Started	4 th Q, 2009	ESS/ITS
iv)	Group 6: Miscellaneous (Paragraphs 1390 and 1627 of Order 890)		
	1. Paragraph 1390 of Order 890 Status: Not Started	4 th Q, 2009	ESS/ITS
	2. Paragraphs 1627 of Order 890 Status: Not Started	4 th Q, 2009	ESS/ITS
	3. Redispatch Cost Posting to allow for posting of third party offers of planning redispatch services. Status: Not Started	4 th Q, 2009	ESS/ITS
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	3 rd Q, 2009	ESS/ITS



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Item Description	Completion ¹	Assignment ²
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))	3 rd Q, 2009	ESS/ITS
Status: Underway		
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)	3 rd Q, 2009	JISWG
Status: Underway		
2) Transition the TSIN Registry from NERC to NAESB as the enhanced Electric Industry Registry (EIR), (R06027).	4 th Q, 2009	NAESB/NE RC Administration, JISWG
Status: Underway		
iii) Document procedures used to implement the displacement/interruption terms of the Pro Forma tariff (R05019).	4 th Q, 2009	ESS/ITS
Status: Not Started		
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 ESS/ITS.		
1) Eliminate Masking of TSR tag source and sink when requested status is denied, withdrawn refused, displaced, invalid, declined, annulled or retracted	4 th Q, 2009	ESS/ITS
Status: Not Started		
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.	2010	ESS/ITS
Status: Underway (upon further development of this item by NAESB, a completion date will be determined)		
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.	2010	ESS/ITS
Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)		



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	Item Description	Completion ¹	Assignment ²
v)	Develop, coordinate inoperability testing, and implement e-Tag version 1.8.1 Status: Underway	4 th Q, 2009	JISWG
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	1 st Q, 2009	JISWG
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: Underway	3 rd Q, 2009	JISWG
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	JISWG
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)	2009	Board Cert. Prgm Comm
ii)	Develop PKI standards for OASIS. Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2009	ESS/ITS
iii)	Develop Industry Implementation Plan for meeting PKI Standard requirements for e-tagging. Status: Underway eTagging items are linked to the transition of the Registry from NERC to NAESB.	July, 2009	JISWG
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: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2009	BPS



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Item Description	Completion ¹	Assignment ²
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 (examples still to be provided)	4 th Q, 2008	WEQ Section of the Joint WEQ/REQ DSM Subcommitt ee
b) Develop more detailed technical standards for the measurement and verification of demand response products and services in ISO-RTO footprint areas. Status: Not Started (Scope to be initiated in 2 nd Q, 2009, after which a completion date will be set)	Phase 2	WEQ Section of the Joint WEQ/REQ DSM Subcommitt ee
c) Develop preamble for business practice standards for measurement and verification for demand response and energy efficiency programs. Status: Underway	3 rd Q, 2009	Joint WEQ/REQ DSM-EE Subcommitt ee
d) Develop glossary for business practice standards Status: Underway	3 rd Q, 2009	Joint WEQ/REQ DSM-EE Subcommitt ee
e) Support retail development of matrix and model business practice standards for measurement and verification for demand response programs Status: Underway	2 nd Q, 2009	Retail Section of Joint WEQ/REQ DSM-EE Subcommitt ee
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: Not Started (Scope to be initiated in 2 nd Q, 2009, after which a completion date will be set)	Phase 2	WEQ Section/Join t WEQ/REQ DSM-EE Subcommitt ee



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Item Description	Completion ¹	Assignment ²
<p>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 in ISO/RTO footprint areas.</p> <p>Status: Not Started (Scope to be initiated in 2nd Q, 2009, after which a completion date will be set)</p>	Phase 2	<p>WEQ Section/Join t WEQ/REQ DSM-EE Subcommitt ee</p>
<p>h) Develop business practice standards for cap and trade programs for green house gas</p> <p>Status: Not Started (Scope to be initiated in 2nd Q, 2009 at the earliest. Upon conclusion of the scoping statement it will be determined whether NAESB standards development is appropriate)</p>	Phase 2	<p>Joint WEQ/REQ DSM-EE Subcommitt ee</p>
6 Maintain existing body of Version 2 standards		
<p>a) Make consistency changes to Version 1.0 standards as directed by the WEQ Leadership Committee on December 12, 2007 (R08001 – BPS, ESS/ITS, R08002 - ESS/ITS, R08003 - ESS/ITS - BPS, R08004, R08005 - ESS/ITS)</p>		
<p>1) OASIS Consistency Changes (R08001, R08002, R08003, R08005)</p> <p>Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)</p>	2009	ESS/ITS
<p>2) Gas / Electric Communication Consistency Changes (R08004)</p> <p>Status: Underway</p>	2 nd Q, 2009	BPS
<p>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)</p> <p>Status: Underway</p>	2 nd Q, 2009	<p>BPS/ESS/IT S/SRS Co- chairs</p>
<p>Subcommittee co-chairs are developing WEQ-000 Definition of Terms/Acronyms to replace definitions being included in each NAESB Business Practice.</p>		
<p>c) Develop standards to allow for registered Market Operators to request changes to the Market Level profile of Implemented Interchange (R06006)</p> <p>Status: Complete</p>	1 st Q, 2009	JISWG
<p>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)</p> <p>Status: Not Started</p> <p>This Standards Request was assigned to the ESS/ITS in May 2008.</p>	3 rd Q, 2009	ESS/ITS
<p>e) Provide for Enhanced Granularity for Public Utilities in Identifying Critical Operational Flow Orders. (R08020)</p> <p>Status: Not Started. This Standards Request was assigned to the BPS in August 2008 (upon initiation of this item by NAESB, a completion date will be determined)</p>	2009	<p>BPS jointly with WGQ BPS</p>



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2009 WEQ Annual Plan Approved by the WEQ EC with changes made by the JISWG on March 11, 2009

	Item Description	Completion ¹	Assignment ²
f)	<p>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:</p> <ol style="list-style-type: none"> 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. <p>Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)</p>	2009	SRS (Scoping)

NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WEQ Annual Plan Approved by the WEQ EC on February 3, 2009

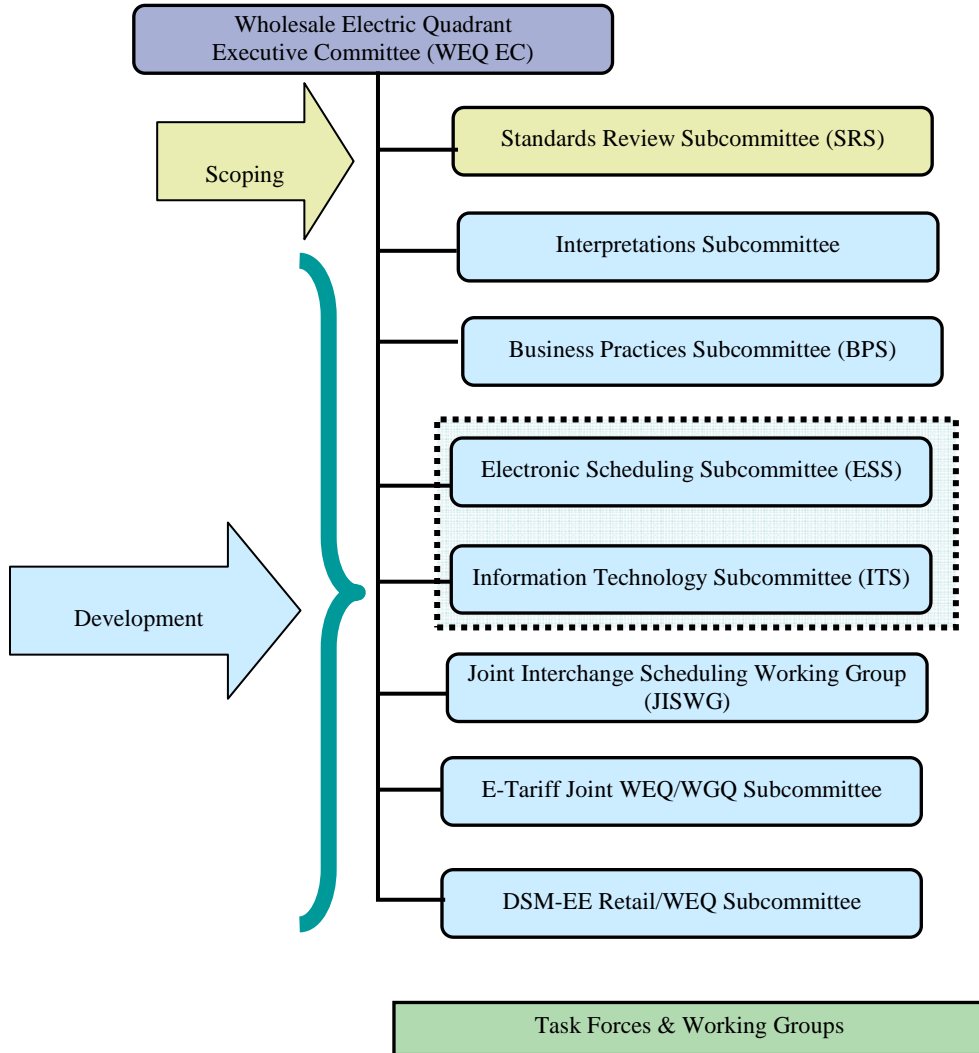
PROVISIONAL ITEMS

- 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 procedures³. 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.



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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

Electronic Scheduling Subcommittee/Information Technology Subcommittee & Task Forces: Paul Sorenson, J.T. Wood, Marcie Otondo

Joint Interchange Scheduling Working Group (JISWG): 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)



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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 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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January 28, 2009

TO: NAESB Executive Committee and Interested Industry Participants
FROM: Rae McQuade, NAESB Executive Director
RE: Schedule of 2009 Meetings

Below is the schedule of 2009 meetings for the Executive Committee, Board of Directors and Advisory Council.

2009 Calendar of Board and EC Meetings

Date	Meeting	Location
March 26	Board of Directors	Houston – Marriott IAH
June 25	Board of Directors Meeting and Meeting of the Members	Houston – Marriott IAH
September 24	Board of Directors	Houston – Marriott IAH
December 10	Board of Directors	Houston – Marriott IAH
February 3-5	Executive Committee (WEQ, Retail, WGQ)	Phoenix, Hosted by SRP
February 14	Advisory Council Meeting	Washington D.C. – Renaissance Washington Hotel (in conjunction with NARUC Winter Meeting)
May 12-14	Executive Committee (WEQ, Retail, WGQ)	Carmel, IN hosted by ACES Power
August 18-20	Executive Committee (WEQ, Retail, WGQ)	Colorado Springs hosted by El Paso Western Pipelines
October 27-29	Executive Committee (WEQ, Retail, WGQ)	Richmond, VA hosted by Dominion