



North American Energy Standards Board

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

NORTH AMERICAN ENERGY STANDARDS BOARD RETAIL GAS & ELECTRIC QUADRANTS EXECUTIVE COMMITTEE MEETING MATERIALS

Wednesday, October 24, 2012 -- 10:00 am to 4:00 pm E

Dominion Downtown Offices, Richmond, VA



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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING RETAIL QUADRANTS DRAFT AGENDA

Wednesday, October 24, 2012 – 10:00 am to 4:00 pm E

Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA – Pump House Auditorium

#	Agenda Item	Page
1.	Welcome	
	<ul style="list-style-type: none"> • Antitrust Guidelines http://www.naesb.org/misc/antitrust_guidance.doc (Guidance) 4 • Welcome to members and attendees • Quorum Establishment: Roll Call of Retail EC Members and Alternates: http://www.naesb.org/pdf4/ec_terms.pdf (EC) and http://www.naesb.org/pdf4/alt_ec_members.pdf (EC Alt) 5 	
2.	Consent Agenda (simple majority to approve)	
	<ul style="list-style-type: none"> • Adoption of Agenda: http://www.naesb.org/pdf4/ec102312a.docx 18 • Adoption of the Meeting Minutes from August 22, 2012: http://www.naesb.org/pdf4/retail_ec082212dm.doc 31 • Adoption of changes to the 2012 Retail Annual Plan to be proposed to the Board of Directors: http://www.naesb.org/pdf4/retail_leadership091912a1.docx 38 	
3.	Discussion on the proposals of the Board Retail Structure Review Subcommittee: http://www.naesb.org/pdf4/rsrc091812a.docx (September 18 Notes); (Managing Committee Notes of August 24 – See agenda item 8); http://www.naesb.org/pdf/naesbbylaws.pdf (Bylaws – See Section 2.4, page 6); http://www.naesb.org/pdf4/bod_terms.pdf (Board Member Roster); (Executive Committee Roster – See agenda item 2); http://www.naesb.org/misc/membership_report_092412.doc (Membership Report), http://www.naesb.org/pdf4/bd092012dm.docx (September 20 Board Minutes) 46	
4.	Review 2012 Retail Annual Plan Item No. 5.a – Develop process flows and online navigational aids to support the procedures and to be provided as Retail orientation materials – for consideration and vote through subsequent notational ballot	
	<ul style="list-style-type: none"> • Recommendation should be available for review prior to EC meeting 	
5.	Review 2012 Retail Annual Plan Item No. 10.b – Develop a new standardized form to obtain the Retail Customer’s Authorization for the release of their information to a third party – for consideration and vote through subsequent notational ballot	
	<ul style="list-style-type: none"> • Recommendation should be available for review prior to EC meeting 	
6.	Subcommittee / Development Updates (meeting materials for updates will be provided by leadership as they are available):	
	<ul style="list-style-type: none"> • Triage Subcommittee: http://www.naesb.org/pdf4/tr081412disposition.docx (Report), http://www.naesb.org/pdf4/tr091812agenda.docx (New Request) 112 • Business Practices Subcommittee (BPS) and Texas Task Force • Information Requirements & TEIS Subcommittee • Glossary Efforts • Smart Grid Standards Development Subcommittee, Smart Grid PAP 10 Subcommittee, Smart Grid Energy Services Provider Interface Task Force: 	
7.	Publication Schedule Review	
	<ul style="list-style-type: none"> • WGQ Publication Schedule (Version 2.1): http://www.naesb.org/misc/wgq_publication_schedule_ver2_1.doc 114 • WEQ Publication Schedule (Version 3.1): http://www.naesb.org/misc/weq_publication_schedule_ver3_1.doc 128 • Retail Publication Schedule (Version 2.1): http://www.naesb.org/misc/retail_publication_schedule_ver2_1.doc 130 	



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#	Agenda Item	Page
8.	Board of Directors, Board Committee and Regulatory Updates:	
	• Board Meeting September 20, 2012: (see agenda item 3)	102
	• Membership Update: http://www.naesb.org/misc/membership_report_092412.doc (Membership Report)	133
	• Board Revenue Efforts: http://www.naesb.org/pdf4/bd_revenue091412notes.docx (September 14 Notes); http://www.naesb.org/pdf4/bd092012w1.pdf (Presentation)	143
	• Managing Committee: http://www.naesb.org/pdf4/managing082412notes.docx (August 24 Notes)	156
	• Gas-Electric Harmonization Committee: http://www.naesb.org/pdf4/bd092012a1.pdf (report); http://www.naesb.org/pdf4/092412press_release.pdf (press release)	157
	• Regulatory Updates:	201
	• September 18, 2012 – NAESB report to the FERC of the Version 003 of the NAESB Wholesale Electric Quadrant standards. Standards for Business Practices of Public Utilities (Docket No. RM 05-5-022), http://www.naesb.org/pdf4/ferc_091812_weq_version003_report.pdf	
9.	Review and possible vote to adopt 2013 Annual Plan	
10.	Other Business	219
	• Meeting Schedule 2012: http://www.naesb.org/misc/2012_schedule.pdf	
11.	Adjourn	

Attire – Business Casual



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Antitrust and Other Meeting Policies

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 2012 EXECUTIVE COMMITTEE TERMS¹ – Wholesale Gas Quadrant

PRODUCERS SEGMENT		TERM END:
Rhonda Denton	Regulatory Advisor, BP Energy Company	12-31-2012
Pete Frost	Director - Regulatory Affairs, ConocoPhillips Gas and Power Marketing	12-31-2012
Chuck Cook	Manager - Regulatory Affairs, Chevron	12-31-2013
Richard D. Smith	Regulatory & Compliance Manager, Noble Energy, Inc.	12-31-2013
Randy E. Parker	Global Regulatory Advisor, ExxonMobil Gas and Power Marketing Company (a division of ExxonMobil Corporation)	12-31-2013
PIPELINE SEGMENT		
Mark Gracey	Manager of Contract Management, Tennessee Gas Pipeline Company, LLC	12-31-2014
Kathryn Burch	Project Manager - Standards and Regulatory, Spectra Energy	12-31-2014
Dale Davis	Industry Standards Consultant, Williams Gas Pipeline	12-31-2013
Kim Van Pelt	Manager of Regulatory Compliance, Boardwalk Pipeline Partners, LP	12-31-2012
Tom Gwilliam	Senior Business Analyst, Iroquois Gas Transmission System	12-31-2012
LOCAL DISTRIBUTION COMPANY (LDC) SEGMENT		
Chris Fan	Project Specialist – Energy Markets Policy Group, Consolidated Edison Co. of New York	12-31-2014
Phil Precht	Management Consultant – Pricing & Regulatory Services Department, Baltimore Gas and Electric Company	12-31-2014
Archie Hickerson	Director - Regulatory Affairs and Planning, AGL Resources	12-31-2013
Pete Connor	Contractor, American Gas Association	12-31-2012
Craig Colombo	Energy Trader III, Dominion Resources	12-31-2012
END USERS SEGMENT		
Norm Spooner	Supply Chain Manager – Fuel & Term Trading Department, Arizona Public Service Company	12-31-2012
Valerie Crockett	Senior Program Manager - Energy Markets & Policy, Tennessee Valley Authority	12-31-2012
Lori-Lynn C. Pennock	Senior Fuel Supply Analyst, Salt River Project	12-31-2013
Simona Patru	Manager Contract Administration – Energy Marketing & Trading, Florida Power & Light	12-31-2013
Tina Burnett	Natural Gas Resources Administrator, The Boeing Company	12-31-2013

¹ NAESB Executive Committee Designated Alternates Selection Process:
http://www.naesb.org/pdf4/designated_alternates_selection_process.docx



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SERVICES SEGMENT

Craig Fleming	Director of Credit, Sequent Energy Management	12-31-2012
Lisa Simpkins	Vice President, Energy Policy – Natural Gas, Constellation Energy Commodities Group	12-31-2012
Leigh Spangler	CEO, Latitude Technologies, Inc.	12-31-2013
Jim Buccigross	Vice President, 8760 Inc.	12-31-2013
Jeff Jarvis	Senior Counsel, Encana Marketing (USA), Inc.	12-31-2013

EXECUTIVE COMMITTEE OFFICERS: Jim Buccigross is WGQ chairman of the Executive Committee, Dale Davis is WGQ vice chairman; Phil Precht is the REQ chairman, Jim Minneman is REQ vice chairman, Dan Jones is the RGQ chairman, Kathy York is the WEQ chairman and Jim Castle is the WEQ vice chairman.



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SERVICE PROVIDERS/SUPPLIERS SEGMENT		TERM END:
Bill Barkas	Manager of Retail State Government Relations, Dominion Retail, Inc.	12-31-2013
Jim Minneman	Controller, PPL Solutions, LLC	12-31-2013
Wendell Miyaji	Vice President – Energy Sciences, Comverge, Inc.	12-31-2012
Susan Munson	ERCOT Retail Market Liaison, Electric Reliability Council of Texas (ERCOT)	12-31-2012
UTILITIES SEGMENT		
Phil Precht	Management Consultant - Pricing and Regulatory Services Department, Baltimore Gas & Electric Company	12-31-2013
Patrick Eynon	Supervisor – Retail Access, Ameren Services	12-31-2013
Judy Ray	Industrial Segment Manager – Contract Administrator, Alabama Power Company	12-31-2012
Michael J. Jesensky	Director – Demand –Side Analysis, Dominion Resources Services, Inc. (representing Dominion Virginia Power)	12-31-2012
END USERS/PUBLIC AGENCIES SEGMENT		
James Bradford Ramsay	General Counsel – Supervisor/Director – NARUC Policy Department, National Association of Regulatory Utility Commissioners (NARUC)	12-31-2013
Dennis Robinson	Director – Market & Resource Administration, ISO New England	12-31-2013
V A C A N C Y		12-31-2012
Pam Stonier	Utilities Analyst, Vermont Public Service Board	12-31-2012



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TRANSMISSION SEGMENT		TERM END:	SUBSEGMENT:
Patrick McGovern	Manager - System Services, Georgia Transmission Corporation	12-31-2013	Muni/Coop
Charles (Chuck) B. Feagans III	Manager – Operations Performance and Standards, Tennessee Valley Authority	12-31-2012	at large
Corey Sellers	Transmission Service Manager, Southern Company	12-31-2012	IOU
Narinder Saini	Policy Consultant, Entergy Services, Inc.	12-31-2013	IOU
Robert Bean	Transmission Services Trading Section Leader, Arizona Public Service Company	12-31-2012	at large
Bob Harshbarger	OASIS Trading Manager, Puget Sound Energy	12-31-2013	at large
Craig L. Williams	Market Interface Manager, Western Electricity Coordinating Council (WECC)	12-31-2013	At-Large
GENERATION SEGMENT			
William J. Gallagher	Special Contracts Chief, Vermont Public Power Supply Authority	12-31-2013	Muni/Coop
Kathy York	Senior Program Manager – Energy Markets, Policy, and Compliance Reporting, Tennessee Valley Authority	12-31-2012	Fed/State/Prov.
V A C A N C Y		12-31-2012	at large
John Ciza	Project Manager Energy Policy and Regulatory Affairs, Southern Company Services	12-31-2013	IOU
Alan Johnson	Director Regulatory Compliance – Commercial Operations & Commodities, NRG Energy, Inc.	12-31-2012	Merchant
Brad Cox	Vice President – Markets & Compliance, Tenaska Power Services	12-31-2013	Merchant
Larry Williamson	FERC Tariff and Compliance Manager, Black Hills Corporation	12-31-2013	at large
MARKETERS/BROKERS SEGMENT			
Chris Norton	Director of Market Regulatory Affairs, American Municipal Power, Inc.	12-31-2012	Muni/Coop
Luis A. Suarez	Program Manager Information Security, Tennessee Valley Authority	12-31-2013	Fed/State/Prov.
David Lemmons	Senior Manager – Market Operations, Xcel Energy, Inc.	12-31-2012	at large
V A C A N C Y		12-31-2013	at large
John Apperson	Director – Commercial and Trading, PacifiCorp Energy	12-31-2012	IOU
Roy True	Manager of Regulatory and Market Affairs, ACES Power Marketing	12-31-2013	at large
Shannon Jones	Market Affairs Specialist, Manitoba Hydro	12-31-2013	at large



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DISTRIBUTION/LOAD SERVING ENTITIES (LSE) SEGMENT		TERM END:	SUBSEGMENT:
Ray Phillips	Manager of Compliance and Special Projects, Alabama Municipal Electric Authority	12-31-2012	Muni/Coop
Richard McCall	Director – Environmental and Transmission Compliance, North Carolina Electric Membership Corporation	12-31-2013	Muni/Coop
Alan Pritchard	Senior Engineer, Duke Energy Corporation	12-31-2012	IOU
V A C A N C Y		12-31-2013	at large
Robert Martinko	Consultant FERC Compliance, FirstEnergy Service Company	12-31-2012	at large
Richard Gillman	Manager – Policy Development & Analysis, Bonneville Power Administration	12-31-2013	Other
David Taylor	Director of Standards Regulatory Compliance, North American Electric Reliability Corporation (NERC)	12-31-2013	At-Large
END USERS SEGMENT			
Pam Stonier	Utilities Analyst, Vermont Public Service Board	12-31-2013	at large
V A C A N C Y		12-31-2012	at large
Lou Ann Westerfield	Policy Strategist, Idaho Public Utilities Commission, rep. National Association of Regulatory Utility Commissioners	12-31-2012	Regulator
Lila Kee	Chief Product Officer and Vice President of U.S. Business Development, GMO GlobalSign, Inc.	12-31-2013	at large
Jesse D. Hurley	Chief Executive Officer, Shift Systems	12-31-2012	at large
V A C A N C Y		12-31-2013	at large
Paul Sorenson	Vice President - Central Markets Strategy, Open Access Technology International, Inc.	12-31-2013	At-Large
INDEPENDENT GRID OPERATORS/PLANNERS			
Chris Advena	Manager – Transmission Service, PJM Interconnection, LLC	12-31-2012	
Jim Castle	Manager - Grid Operations, New York Independent System Operator, Inc.	12-31-2012	
Matt Goldberg	Director Reliability & Operations Compliance ISO New England, Inc.	12-31-2012	
Brian Jacobsen	CAISO Manager – Enterprise Model Management, California ISO	12-31-2012	
Joel Mickey	Director of Grid Operations, Electric Reliability Council of Texas	12-31-2013	
Ed Skiba	Consulting Advisor, Standards Compliance & Strategy, Midwest ISO	12-31-2013	
Charles Yeung	Executive Director Interregional Affairs, Southwest Power Pool	12-31-2013	



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TECHNOLOGY AND SERVICES

Jim Buccigross	Vice President Energy Industry Practice, 8760 Inc.	12-31-2012
Andy Tritch	Senior Business Analyst, SunGard	12-31-2012
V A C A N C Y		12-31-2012
V A C A N C Y		12-31-2012
Rachel Bryan	Partner, Stryve Advisors, LLC	12-31-2013
TJ Ferreira	Director, Power Costs, Inc. (PCI)	12-31-2013
V A C A N C Y		12-31-2013



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SERVICE PROVIDERS/SUPPLIERS SEGMENT		TERM END:
VACANCY		12-31-2013
VACANCY		12-31-2013
Richard Zollars	Director - Data and Billing, Dominion Retail, Inc.	12-31-2012
VACANCY		12-31-2012

DISTRIBUTORS SEGMENT		
Dan Jones	Senior Account Manager – Customer Choice, Duke Energy	12-31-2013
Julie Compton Pellizzi	Project Leader, AGL Resources, Inc.	12-31-2013
VACANCY		12-31-2012
VACANCY		12-31-2012

END USERS/PUBLIC AGENCIES SEGMENT		
VACANCY		12-31-2012
VACANCY		12-31-2012
VACANCY		12-31-2013
VACANCY		12-31-2013



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NORTH AMERICAN ENERGY STANDARDS BOARD 2012 EXECUTIVE COMMITTEE ALTERNATES¹ – Wholesale Gas Quadrant

PRODUCERS SEGMENT		DESIGNATION DATE
Bill Green	Vice President – Gas Sales, Devon Energy Corporation	08-01-2012
Jim Busch	Sr. Regulatory Advisor, BP Energy Company	08-01-2012
PIPELINE SEGMENT		DESIGNATION DATE
Paul Love	Director, Electronic Customer Services, Natural Gas Pipe Line Company of America	01-01-2002
Christopher Burden	Consultant e-Commerce & Service Delivery, Williams Gas Pipeline	03-01-2007
Ronald G. Tomlinson	Manager – Business Technology, Dominion Transmission, Inc.	04-13-2010
Bill Griffith	Consultant, Kinder Morgan Western Region Pipelines	01-19-2012
Randy Young	Vice President – Regulatory Compliance and Corporate Services, Boardwalk Pipeline Partners, LP	06-15-2012
Rachel A. Hogge	Business Technology Services Analyst, Dominion Transmission, Inc.	08-06-2012
Micki Schmitz	Business Systems Analyst, Northern Natural Gas	08-06-2012
Jerry Gross	Questar Pipeline Company	08-22-2012
LOCAL DISTRIBUTION COMPANY (LDC) SEGMENT		DESIGNATION DATE
Rick Ishikawa	Interconnect Account Manager in Capacity Products Group, Southern California Gas Company (Sempra Energy)	01-01-2002
Scott Butler	Project Manager, Energy Markets Policy Group, Consolidated Edison Company of New York, Inc.	05-31-2005
Shannon Pierce	Senior Counsel – Interstate Transactions and Gas Operations, AGL Resources	12-16-2010
Deepak Raval	NiSource FERC Specialist, NiSource Inc.	02-13-2012
END USERS SEGMENT		DESIGNATION DATE
Art Morris	Gas Originator, Florida Power & Light Company	05-07-2008
Paul A. Jones	Senior Marketing Representative, Salt River Project	06-09-2008
Kathy York	Senior Program Manager – Energy Markets, Policy, and Compliance Reporting, Tennessee Valley Authority	01-13-2011
SERVICES SEGMENT		DESIGNATION DATE
Keith Sappenfield	Director, US Regulatory Affairs, Midstream and Marketing, Encana Oil and Gas (USA), Inc.	06-09-2008
Sylvia Munson	Industry Specialist, SunGard Energy	01-24-2011
Cleve Hogarth	Vice President & Chief Commercial Officer, Quorum Business Solutions, Inc.	06-15-2012

¹ NAESB Executive Committee Designated Alternates Selection Process:
http://www.naesb.org/pdf4/designated_alternates_selection_process.docx



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SERVICE PROVIDERS/SUPPLIERS SEGMENT		DESIGNATION DATE
H. Neal Allen	Energy Efficiency Manager, Southern Company Services	10-15-2009
Brandon S. Siegel	Manager – Market Management, E:SO (ista)	11-19-2009
UTILITIES SEGMENT		DESIGNATION DATE
Keith P. Hock	Director ARES Business Center, Ameren Services Company	01-01-2002
William J. Welzant	Principal Supplier Services Analyst, Supplier Account Management, Baltimore Gas and Electric Co.	11-25-2007
Debbie McKeever	Market Advocate, Oncor	02-03-2010
END USERS/PUBLIC AGENCIES SEGMENT		DESIGNATION DATE
Eric Winkler	Project Manager – Demand Resource Qualification, Resource Analysis and Integration, ISO New England	06-15-2012



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TRANSMISSION SEGMENT		SUB-SEGMENT	DESIGNATION DATE
J.T. Wood	Southern Company Services	IOU	02-02-2007
Jane Daly	Rate & Regulatory Advisor, Arizona Public Service Company	IOU	03-09-2007
Ross Kovacs	Transmission Strategic Coordinator, Georgia Transmission Corporation	Muni/Coop	06-18-2009
Sarah E. Edmonds	Director of Transmission Regulation, Strategy and Policy, PacifiCorp	IOU	09-03-2010
Lori Molotch	Transmission Services Trader Senior, Arizona Public Service Company	IOU	12-21-2010
Joshua Jenkins	Sr. Engineer – Transmission Policy and Services, Southern Company Services	IOU	01-19-2011
Russ Mantifel	Transmission Policy Analyst, Bonneville Power Administration	Fed/State/Prov.	12-06-2011
Chris Jones	Transmission Policy Analyst, Bonneville Power Administration	Fed/State/Prov.	12-06-2011
Clint Aymond	Senior Engineer, Entergy Services, Inc.	IOU	03-27-2012
Troy Willis	Engineer – V, System Services, Georgia Transmission Corporation	Muni/Coop	04-05-2012
GENERATION SEGMENT		SUB-SEGMENT	DESIGNATION DATE
Francis Halpin	Bonneville Power Administration	Fed/State/Prov.	01-01-2002
Lou Oberski	Director – Electric Market Policy, Dominion Resources Services, Inc (Dominion Energy Marketing, Inc.)	IOU	04-28-2008
Valerie Crockett	Senior Program Manager - Energy Markets & Policy, Tennessee Valley Authority	Fed/State/Prov.	07-05-2012
Tony Suarez	Program Manager Information Security, Tennessee Valley Authority	Fed/State/Prov.	07-05-2012



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MARKETERS/BROKERS SEGMENT		SUB-SEGMENT	
Jeff Ackerman	Manager, CRSP-Energy Mgmt., Western Area Power Administration	Fed/State/Prov	01-01-2002
Brenda Anderson	Bonneville Power Administration	Fed/State/Prov	01-01-2002
Valerie Crockett	Senior Program Manager, Energy Markets & Policy, Tennessee Valley Authority	Fed/State/Prov	01-27-2005
Joel Dison	Project Manager, Southern Company Generation and Energy Marketing (Southern Company Services, Inc.)	IOU	01-16-2008
Kevin M. Pera	Transmission Analyst, Xcel Energy, Inc.	IOU (at large)	08-12-2011
Audrey Penner	Market Access & Regulatory Affairs Officer, Manitoba Hydro	Fed/State/Prov	04-27-2012
Kathy York	Senior Program Manager – Energy Markets, Policy, and Compliance Reporting, Tennessee Valley Authority	Fed/State/Prov	07-05-2012
DISTRIBUTION/LSE SEGMENT		SUB-SEGMENT	DESIGNATION DATE
Lee Hall	Coordination Manager – Power Services, Bonneville Power Administration	Other	10-24-2008
James R. Manning	Senior Engineer – Transmission Resources, North Carolina Electric Membership Corporation	Muni/Coop	01-03-2011
Kristin Iwanechko	Manager of Standards Information, North American Electric Reliability Corporation	At-Large	10-27-2011
Michael Gildea	Reliability Standards Advisor, North American Electric Reliability Corporation (NERC)	At-Large	05-08-2012
Chris Jones	Transmission Policy Analyst, Bonneville Power Administration	Other	08-21-2012
END USERS SEGMENT		SUB-SEGMENT	DESIGNATION DATE
Mark W. Hackney	Regional Director – Transmission, Open Access Technology International, Inc.	At-Large	06-29-2010



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INDEPENDENT GRID OPERATORS/PLANNERS SEGMENT	SUB-SEGMENT	DESIGNATION DATE
Paul Wattles	Senior Analyst – Market Design & Development, Electric Reliability Council of Texas (ERCOT)	06-15-2007
Bill Blevins	Sr. Market Support Analyst, Electric Reliability Council of Texas (ERCOT)	06-15-2007
Robert Coughlin	Principal Scientist Reliability & Operations Compliance, ISO New England, Inc.	06-15-2007
Dean Hartung	Manager Real Time Market Operations, PJM Interconnection, LLC	06-15-2007
Carl Monroe	Sr. Vice President Operations & Chief Operating Officer, Southwest Power Pool	06-15-2007
Greg Campoli	Supervisor – Reliability Compliance and Assessment, New York ISO	08-30-2007
Diana Pommen	Director Interjurisdictional Affairs, Alberta Electric System Operator	02-12-2008
Cheryl Mendrala	Principal Engineer, ISO New England, Inc.	03-31-2008
Jimmy Womack	Manager-Tariff Administration, Southwest Power Pool	04-03-2008
Terry Bilke	Director Standards Compliance and Strategy, Midwest ISO	03-06-2009
Eric Winkler	Project Manager – FCM and Tariff Administration, ISO New England, Inc.	06-12-2009
Marie Knox	Sr. Standards Compliance Analyst, Midwest ISO	08-31-2009
Heather Sanders	Renewable Integration Support Manager, California ISO	02-16-2010
Frank Koza	Executive Director – Operations Support, PJM Interconnection, LLC	02-21-2012
Dave Francis	Principal Advisor – Standards Compliance and Strategy, Midwest ISO	02-24-2012

TECHNOLOGY AND SERVICES	SUB-SEGMENT	DESIGNATION DATE
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North American Energy Standards Board

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NORTH AMERICAN ENERGY STANDARDS BOARD
2012 EXECUTIVE COMMITTEE ALTERNATES – Retail Gas Quadrant

SERVICE PROVIDERS/SUPPLIERS SEGMENT		DESIGNATION DATE
Paul Cherevka	Project Manager Data Warehouse, Dominion Retail	06-28-2005

DISTRIBUTORS SEGMENT		DESIGNATION DATE
Joe Stengel	Manager, Federal Regulatory Affairs, Philadelphia Gas Works (American Public Gas Association (APGA))	01-01-2002

END USERS/PUBLIC AGENCIES SEGMENT		DESIGNATION DATE
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September 24, 2012

TO: NAESB Wholesale Electric, Wholesale Gas and Retail Gas and Electric Quadrant Executive Committee Members, Alternates and Interested Industry Participants

FROM: Jonathan Booe, NAESB Deputy Director

RE: Quadrant Executive Committee Meeting Announcements and Draft Agendas with links to Meeting Materials
Highlighted with Additional Materials

NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETINGS Hosted by Dominion at the Dominion Downtown Offices in Richmond, VA

First, let me thank Ron Tomlinson, Rachel Hogge and Lou Oberski for the generosity and commitment to the NAESB organization through hosting this series of meetings. Without such support, it would be very difficult to maintain the NAESB budget and provide various locations around the country to encourage attendance at the NAESB in-person meetings. Below are the meeting arrangements:

Where: Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA
Contact: Veronica Thomason, 713-356-0060
When: Tuesday, October 23 -- 10:00 a.m. to 4:00 p.m. E – Wholesale Electric Quadrant
Wednesday, October 24 -- 10:00 a.m. to 4:00 p.m. E – Retail Gas Quadrant and Retail Electric Quadrant
Thursday, October 25 -- 10:00 a.m. to 4:00 p.m. E – Wholesale Gas Quadrant

The materials for the meeting will be emailed to the participants and posted on the web site shortly. In an effort to control costs and be more environmentally aware, we are not printing Executive Committee books any longer although they will be posted in an assembled pdf document for each quadrant meeting, in addition to the links to the native formatted documents provided in the agendas. For agenda items where materials are already available and have been sent to you in prior communications, or posted on the web site, the links to those documents are included in the agenda for your convenience, and to help you prepare for the meetings. The links are formatted in blue underlined text. As the meeting approaches, this agenda with additional links to documents will be provided, along with the pdf assembled books.

If you plan to attend any of the above EC meetings and have not already RSVPed to our office through the other announcements, please do so at your earliest convenience to the NAESB office (naesb@naesb.org) so that proper meeting arrangements can be made by NAESB and our host. If you are an EC member and are not attending please review the process for the selection of designated alternates that may represent you at the EC meetings, and please notify the office when you RSVP that you are unable to attend.

Travel information is posted on the NAESB web site on the EC pages and can be directly accessed from the following link: <http://www.naesb.org/pdf4/ec102312ma.doc>. If you plan to participate by conference call, the information to do so is provided in this document. The EC meetings will be web cast as well. The meetings, conference calling and web casting is open to any interested party.

As always, the chair reserves the right to extend the time of the meeting to ensure that agenda items are addressed. The times indicated on the agenda will be followed to ensure that agenda items are allotted appropriate time slots. Should an agenda item conclude earlier than its stated time slot, the remaining time could be allotted to other agenda items at the discretion of the chair.

There are other NAESB subcommittee meetings being held in conjunction with the EC meetings. They are held in various locations, and available via conference call and web cast, and upon advance request for WGQ Joint IR/Technical subcommittee meetings. The details are provided in the following table. As more room locations are known the table will be updated and reposted.



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Date	Time	Meeting/Location
Monday, October 22	9 am to 11 am E	REQ/RGQ Information Requirements and Technical Electronic Implementation Subcommittee Location: Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA – Riverside Room 6 th Floor Conference Call Number: 866-740-1260 Access Code: 7133562 Security Code: 7342 Web Cast: http://www.readytalk.com (please use same codes) NAESB web page: http://www.naesb.org/retail_ir_teis.asp
Monday, October 22	1 pm to 1:30 pm E	Retail Glossary Meeting Location: Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA – Riverside Room 6 th Floor Conference Call Number: 866-740-1260 Access Code: 7133560 Security Code: 1301 Web Cast: http://www.readytalk.com (please use same codes) NAESB web page: http://www.naesb.org/REQ/req_glossary.asp
Monday, October 22	1:30 pm to 2 pm and 3:30 pm to 5 pm E	Retail BPS Meeting – Day 1 of 2 Location: Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA – Riverside Room 6 th Floor Conference Call Number: 866-740-1260 Access Code: 7133560 Security Code: 1301 Web Cast: http://www.readytalk.com (please use same codes) NAESB web page: http://www.naesb.org/retail_bps.asp
Monday, October 22	2 pm to 3:30 pm E	Joint Retail BPS, DSM-EE and Data Privacy Task Force Meeting Location: Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA – Riverside Room 6 th Floor Conference Call Number: 866-740-1260 Access Code: 7133560 Security Code: 1301 Web Cast: http://www.readytalk.com (please use same codes) NAESB web page: http://www.naesb.org/retail_bps.asp
Tuesday, October 23	10 am to 4 pm E	WEQ EC Meeting Location: Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA – Pump House Auditorium Conference Call Number: 866-740-1260 Access Code: 7133562 Security Code: 2843 Web Cast: http://www.readytalk.com (please use same codes) NAESB web page: http://www.naesb.org/weq/weq_ec.asp
Tuesday, October 23	9 am to 3 pm E	Retail BPS Meeting – Day 2 of 2 Location: Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA – Riverside Room



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Date	Time	Meeting/Location
		6 th Floor Conference Call Number: 866-740-1260 Access Code: 7133560 Security Code: 1301 Web Cast: http://www.readytalk.com (please use same codes) NAESB web page: http://www.naesb.org/retail_bps.asp
Tuesday, October 23	9 am to 4 pm E	WGQ IR/Technical Subcommittees Meeting – Day 1 of 2 Location: Dominion Downtown Richmond, 707 E. Main Street, Richmond, VA – Room 12NC Conference Call Number: 866-740-1260 Access Code: 3560063 Security Code: 1022 NAESB web page: http://www.naesb.org/WGO/ir.asp
Wednesday, October 24	10 am to 4 pm E	Retail EC Meeting by phone/web cast/ for in person attendance, please join NAESB staff Location: Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA – Pump House Auditorium Conference Call Number: 866-740-1260 Access Code: 7133562 Security Code: 6862 Web Cast: http://www.readytalk.com (please use same codes) NAESB web page: http://www.naesb.org/REQ/req_ec.asp
Wednesday, October 24	10 am to 5 pm E	WEQ OASIS Subcommittee – Day 1 of 2 Location: Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA – Riverside Room 6 th Floor Conference Call Number: 866-740-1260 Access Code: 7133560 Security Code: 2695 Web Cast: http://www.readytalk.com (please use same codes) NAESB web page: http://www.naesb.org/WEQ/weq_oasis.asp
Wednesday, October 24	9 am to 4 pm E	WGQ IR/Technical Subcommittees Meeting – Day 2 of 2 Location: Dominion Downtown Richmond, 707 E. Main Street, Richmond, VA – Room 12NC Conference Call Number: 866-740-1260 Access Code: 3560063 Security Code: 1022 NAESB web page: http://www.naesb.org/WGO/ir.asp
Thursday, October 25	10 am to 4 pm E	WGQ EC Meeting Location: Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA – Pump House Auditorium Conference Call Number: 866-740-1260 Access Code: 7133562 Security Code: 8724 Web Cast: http://www.readytalk.com (please use same codes) NAESB web page: http://www.naesb.org/WGO/ec.asp



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Date	Time	Meeting/Location
Thursday, October 25	10 am to 4 pm E	WEQ OASIS Subcommittee – Day 2 of 2 Location: Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA – Riverside Room 6 th Floor Conference Call Number: 866-740-1260 Access Code: 7133560 Security Code: 2695 Web Cast: http://www.readytalk.com (please use same codes) NAESB web page: http://www.naesb.org/WEQ/weq_oasis.asp

Please feel free to call the NAESB office should you have any questions or comments. Instructions for dialing in or participating on the web casts follow.

Best Regards, *Jonathan*



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CONFERENCE CALLING AND WEB CONFERENCING INSTRUCTIONS FOR THE EXECUTIVE COMMITTEE AND RELATED SUBCOMMITTEE MEETINGS

OCTOBER 22-25, 2012

This conference call, as all NAESB meetings and conference calls, is open to any interested party.

To join the conference call:

- Dial the 11-digit toll free phone number (provided in the preceding chart – specific to the meeting and date)
- An automated attendant will ask you to enter a seven-digit access code (provided in the preceding chart – specific to the meeting and date)
- The automated attendant will ask you to record your name.
- Please note, if the conference leader has not yet initiated the conference call, you will be placed on hold until the conference leader starts the conference.
- The automated attendant will then ask you for a four-digit security code (provided in the preceding chart – specific to the meeting and date)

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

To join the web conference, go to www.readytalk.com and enter the same access code and security code. Please note that if the conference leader has not yet initiated the web conference, you will view a screen that states, “The Chairperson has not yet arrived. Please standby for your web conference to begin.”

ReadyTalk recommends that you test your browser and network connections for compatibility prior to participating in a web conference. To do so, go to <http://test.callinfo.com>. If you have problems joining a conference call or need technical assistance, please contact ReadyTalk Customer Care, 1-800-843-9166. Please contact the NAESB Office (713-356-0060 or naesb@naesb.org) should you need any additional information or have questions or comments.



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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING WHOLESALE ELECTRIC QUADRANT DRAFT AGENDA

Tuesday, October 23, 2012 – 10:00 am to 4:00 pm E
Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA – Pump House Auditorium

#	Agenda Item
1.	Welcome <ul style="list-style-type: none">• Antitrust Guidelines: http://www.naesb.org/misc/antitrust_guidance.doc• Welcome to members and attendees• Quorum Establishment: Roll Call of WEQ EC Members and Alternates: http://www.naesb.org/pdf4/ec_terms.pdf (EC) and http://www.naesb.org/pdf4/alt_ec_members.pdf (EC Alt)
2.	Consent Agenda (simple majority to approve) <ul style="list-style-type: none">• Adoption of Agenda: http://www.naesb.org/pdf4/ec102312a.docx• Adoption of the EC Meeting Minutes from August 21, 2012: http://www.naesb.org/pdf4/weq_ec082112dm.docx• Adoption of changes to the 2012 WEQ Annual Plan to be proposed to the Board of Directors: http://www.naesb.org/pdf4/weq_leadership091912a1.docx
3.	Review and consider for vote WEQ 2012 Annual Plan Item 4.a – Develop PKI Standards for OASIS - super majority to approve <ul style="list-style-type: none">• Recommendation: http://www.naesb.org/pdf4/weq_2012_api4a_rec.doc• Request for Formal Comments: http://www.naesb.org/pdf4/weq_090712_reqcom.doc - <i>comment period ends October 8, 2012</i>• Comments Submitted by the WEQ Standards Review Subcommittee: http://www.naesb.org/pdf4/weq_090712_weq_srs.doc• Comments Submitted by Bonneville Power Administration: http://www.naesb.org/pdf4/weq_090712_bpa.doc• Comments Submitted by E. Cardone, New York ISO: http://www.naesb.org/pdf4/weq_090712_nyiso.docx• Comments Submitted by M. Colby, PJM: http://www.naesb.org/pdf4/weq_090712_pjm.doc• Comments Submitted by P. Sorenson, OATI: http://www.naesb.org/pdf4/weq_090712_oati.doc• Late Comments Submitted by the WEQ OASIS Subcommittee on Recommendation: http://www.naesb.org/pdf4/weq_090712_oasis_late.doc• Late Comments Submitted by the WEQ OASIS Subcommittee on the New York ISO Comments: http://www.naesb.org/pdf4/weq_090712_oasis_on_nyiso_late.docx• Late Comments Submitted by the WEQ OASIS Subcommittee on the OATI Comments: http://www.naesb.org/pdf4/weq_090712_oasis_on_oati_late.doc• Late Comments Submitted by the WEQ OASIS Subcommittee on the PJM Comments: http://www.naesb.org/pdf4/weq_090712_oasis_on_pjm_late.doc• Late Comments Submitted by the WEQ OASIS Subcommittee on SRS Comments: http://www.naesb.org/pdf4/weq_090712_oasis_on_srs_late.doc• Late Comments Submitted by the WEQ OASIS Subcommittee on BPA Comments: http://www.naesb.org/pdf4/weq_090712_oasis_on_bpa_late.doc



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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING WHOLESALE ELECTRIC QUADRANT DRAFT AGENDA

Tuesday, October 23, 2012 – 10:00 am to 4:00 pm E
Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA – Pump House Auditorium

Agenda Item

4. Review WEQ 2012 Annual Plan Item 4.b - Develop Industry Implementation Plan for Meeting PKI Standards Requirements for e-Tagging – **Discuss single topic meeting to address recommendations**
 - Recommendation (Part 1): http://www.naesb.org/member_login_check.asp?doc=weq_2012_api4b_part1_rec.doc
 - Request for Formal Comments: http://www.naesb.org/pdf4/weq_100512_reqcom.doc - *comment period ends November 5, 2012*
 - Recommendation (Part 2) : http://www.naesb.org/pdf4/weq_2012_api4b_part2_rec.doc
 - Attachment – Electronic Tagging Functional Specifications Version 1.8.1.1:
http://www.naesb.org/member_login_check.asp?doc=weq_2012_api4b_part2_rec_attach.doc
 - Request for Formal Comments: http://www.naesb.org/pdf4/weq_100512_reqcom.doc - *comment period ends November 5, 2012*
5. Update on EIR transfer
6. Review and Consider for Vote Minor Correction – simple majority to approve
 - MC12032 - Correct NAESB WEQ Business Practice Standards, Version 003: NAESB Business Practice Standards WEQ-000 Abbreviations, Acronyms, and Definitions of Terms, NAESB Business Practice Standards WEQ-001 Open Access Same-Time Information Systems (OASIS), Version 2.0, and NAESB Business Practice Standards WEQ-003 Open Access Same-Time Information Systems (OASIS) Data Dictionary, Version 2.0
Minor Correction: http://www.naesb.org/pdf4/weq_mc12032.doc
 - MC12034 - Correct NAESB WEQ Business Practice Standards, Version 003: NAESB Business Practice Standards WEQ-000 Abbreviations, Acronyms, and Definitions of Terms and NAESB Business Practice Standards WEQ-019 Customer Energy Usage Information Communication
Minor Correction: http://www.naesb.org/pdf4/weq_mc12034.docx
 - MC12035 - Correct NAESB WEQ Business Practice Standards, Version 003: NAESB Business Practice Standards WEQ-008 Transmission Loading Relief (TLR) – Eastern Interconnection
Minor Correction: http://www.naesb.org/pdf4/weq_mc12035.doc
 - MC12036 - Correct NAESB WEQ Business Practice Standards, Version 003: NAESB Business Practice Standards WEQ-001 Open Access Same-Time Information Systems (OASIS), Version 2.0, NAESB Business Practice Standards WEQ-002 Open Access Same-Time Information Systems (OASIS) and Communication Protocol (S&CP), Version 2.0, NAESB Business Practice Standards WEQ-003 Open Access Same-Time Information Systems (OASIS) Data Dictionary, Version 2.0, and NAESB Business Practice Standards WEQ-013 Open Access Same-Time Information Systems (OASIS) Implementation Guide, Version 2.0
Minor Correction: http://www.naesb.org/pdf4/weq_mc12036.doc
7. Subcommittee / Development Updates
 - Triage Subcommittee: <http://www.naesb.org/pdf4/tr081412disposition.docx> (Report), <http://www.naesb.org/pdf4/tr091812agenda.docx> (New Request)
 - Business Practices Subcommittee (BPS)
 - Smart Grid Standards Development Subcommittee, Smart Grid PAP 10 Subcommittee, Smart Grid Energy Services Provider Interface Task Force
 - OASIS Subcommittee



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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING WHOLESALE ELECTRIC QUADRANT DRAFT AGENDA

Tuesday, October 23, 2012 – 10:00 am to 4:00 pm E
Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA – Pump House Auditorium

#	Agenda Item
	<ul style="list-style-type: none">• Joint Electric Scheduling Subcommittee (JESS)• Public Key Infrastructure (PKI) Subcommittee (may be covered in agenda item nos. 3, 4 and 5)• Standards Review Subcommittee (SRS)
8.	Publication Schedule Review <ul style="list-style-type: none">• WGQ Publication Schedule (Version 2.1): http://www.naesb.org/misc/wgq_publication_schedule_ver2_1.doc• WEQ Publication Schedule (Version 3.1): http://www.naesb.org/misc/weq_publication_schedule_ver3_1.doc• Retail Publication Schedule (Version 2.1): http://www.naesb.org/misc/retail_publication_schedule_ver2_1.doc
9.	Board of Directors, Board Committee and Regulatory Updates: <ul style="list-style-type: none">• Board Meeting September 20, 2012: http://www.naesb.org/pdf4/bd092012dm.docx (Draft Minutes)• Membership Update: http://www.naesb.org/misc/membership_report_092412.doc (Membership Report)• Board Revenue Efforts: http://www.naesb.org/pdf4/bd_revenue091412notes.docx (September 14 Notes); http://www.naesb.org/pdf4/bd092012w1.pdf (Presentation)• Board Retail Structure Review Committee: http://www.naesb.org/pdf4/rsrc091812a.docx (September 18 Notes)• Managing Committee: http://www.naesb.org/pdf4/managing082412notes.docx (August 24 Notes)• Gas-Electric Harmonization Committee: http://www.naesb.org/pdf4/bd092012a1.pdf (report); http://www.naesb.org/pdf4/092412press_release.pdf (press release)• Regulatory Updates:<ul style="list-style-type: none">• September 18, 2012 – NAESB report to the FERC of the Version 003 of the NAESB Wholesale Electric Quadrant standards. Standards for Business Practices of Public Utilities (Docket No. RM 05-5-022), http://www.naesb.org/pdf4/ferc_091812_weq_version003_report.pdf
10.	Review and possible vote to adopt 2013 Annual Plan: http://www.naesb.org/pdf4/weq_aplan101612a1.docx (redline); http://www.naesb.org/pdf4/weq_aplan101612a2.docx (clean)
11.	Other Business <ul style="list-style-type: none">• Meeting Schedule 2012: http://www.naesb.org/misc/2012_schedule.pdf
12.	Adjourn

Attire – Business Casual



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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING RETAIL QUADRANTS DRAFT AGENDA

Wednesday, October 24, 2012 – 10:00 am to 4:00 pm E

Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA – Pump House Auditorium

#	Agenda Item
1.	Welcome <ul style="list-style-type: none">• Antitrust Guidelines http://www.naesb.org/misc/antitrust_guidance.doc (Guidance)• Welcome to members and attendees• Quorum Establishment: Roll Call of Retail EC Members and Alternates: http://www.naesb.org/pdf4/ec_terms.pdf (EC) and http://www.naesb.org/pdf4/alt_ec_members.pdf (EC Alt)
2.	Consent Agenda (simple majority to approve) <ul style="list-style-type: none">• Adoption of Agenda: http://www.naesb.org/pdf4/ec102312a.docx• Adoption of the Meeting Minutes from August 22, 2012: http://www.naesb.org/pdf4/retail_ec082212dm.doc• Adoption of changes to the 2012 Retail Annual Plan to be proposed to the Board of Directors: http://www.naesb.org/pdf4/retail_leadership091912a1.docx
3.	Discussion on the proposals of the Board Retail Structure Review Subcommittee: http://www.naesb.org/pdf4/rsrc091812a.docx (September 18 Notes); (Managing Committee Notes of August 24 – See agenda item 8); http://www.naesb.org/pdf/naesbbylaws.pdf (Bylaws – See Section 2.4, page 6); (Board Member Roster – See agenda item 1); (Executive Committee Roster – See agenda item 2); http://www.naesb.org/misc/membership_report_092412.doc (Membership Report), http://www.naesb.org/pdf4/bd092012dm.docx (September 20 Board Minutes)
4.	Review 2012 Retail Annual Plan Item No. 5.a – Develop process flows and online navigational aids to support the procedures and to be provided as Retail orientation materials – for consideration and vote through subsequent notational ballot <ul style="list-style-type: none">• Recommendation should be available for review prior to EC meeting
5.	Review 2012 Retail Annual Plan Item No. 10.b – Develop a new standardized form to obtain the Retail Customer’s Authorization for the release of their information to a third party – for consideration and vote through subsequent notational ballot <ul style="list-style-type: none">• Recommendation should be available for review prior to EC meeting
6.	Subcommittee / Development Updates (meeting materials for updates will be provided by leadership as they are available): <ul style="list-style-type: none">• Triage Subcommittee: http://www.naesb.org/pdf4/tr081412disposition.docx (Report), http://www.naesb.org/pdf4/tr091812agenda.docx (New Request)• Business Practices Subcommittee (BPS) and Texas Task Force• Information Requirements & TEIS Subcommittee• Glossary Efforts• Smart Grid Standards Development Subcommittee, Smart Grid PAP 10 Subcommittee, Smart Grid Energy Services Provider Interface Task Force:
7.	Publication Schedule Review <ul style="list-style-type: none">• WGQ Publication Schedule (Version 2.1): http://www.naesb.org/misc/wgq_publication_schedule_ver2_1.doc• WEQ Publication Schedule (Version 3.1): http://www.naesb.org/misc/weq_publication_schedule_ver3_1.doc• Retail Publication Schedule (Version 2.1): http://www.naesb.org/misc/retail_publication_schedule_ver2_1.doc



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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING RETAIL QUADRANTS DRAFT AGENDA

Wednesday, October 24, 2012 – 10:00 am to 4:00 pm E

Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA – Pump House Auditorium

- | # | Agenda Item |
|-----|---|
| 8. | Board of Directors, Board Committee and Regulatory Updates: <ul style="list-style-type: none">• Board Meeting September 20, 2012: (see agenda item 3)• Membership Update: http://www.naesb.org/misc/membership_report_092412.doc (Membership Report)• Board Revenue Efforts: http://www.naesb.org/pdf4/bd_revenue091412notes.docx (September 14 Notes); http://www.naesb.org/pdf4/bd092012w1.pdf (Presentation)• Managing Committee: http://www.naesb.org/pdf4/managing082412notes.docx (August 24 Notes)• Gas-Electric Harmonization Committee: http://www.naesb.org/pdf4/bd092012a1.pdf (report); http://www.naesb.org/pdf4/092412press_release.pdf (press release)• Regulatory Updates:<ul style="list-style-type: none">• September 18, 2012 – NAESB report to the FERC of the Version 003 of the NAESB Wholesale Electric Quadrant standards. Standards for Business Practices of Public Utilities (Docket No. RM 05-5-022), http://www.naesb.org/pdf4/ferc_091812_weq_version003_report.pdf |
| 9. | Review and possible vote to adopt 2013 Annual Plan |
| 10. | Other Business <ul style="list-style-type: none">• Meeting Schedule 2012: http://www.naesb.org/misc/2012_schedule.pdf |
| 11. | Adjourn |

Attire – Business Casual



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**NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING
WHOLESALE GAS QUADRANT DRAFT AGENDA
Thursday, October 25, 2012 – 10:00 am to 4:00 pm E
Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA – Pump House Auditorium**

- | # | Agenda Item |
|----|---|
| 1. | Welcome <ul style="list-style-type: none">• Antitrust Guidelines http://www.naesb.org/misc/antitrust_guidance.doc (Guidance)• Welcome to members and attendees• Quorum Establishment: Roll Call of WGQ EC Members and Alternates: http://www.naesb.org/pdf4/ec_terms.pdf (EC) and http://www.naesb.org/pdf4/alt_ec_members.pdf (EC Alt) |
| 2. | Consent Agenda (simple majority to approve) <ul style="list-style-type: none">• Adoption of Agenda: http://www.naesb.org/pdf4/ec102312a.docx• Adoption of the Meeting Minutes from August 23, 2012: http://www.naesb.org/pdf4/wgq_ec082312dm.doc• Adoption of changes to the 2012 WGQ Annual Plan to be proposed to the Board of Directors: http://www.naesb.org/pdf4/wgq_leadership091912a1.docx |
| 3. | Consideration and possible vote on 2012 WGQ Annual Plan Item 7.b – Develop the NAESB Natural Gas Liquids Master Agreement according to the analysis completed in annual plan item 7.a – simple majority to approve (Model) <ul style="list-style-type: none">• Recommendation: http://www.naesb.org/pdf4/wgq_2012_ap_7b_rec.docx<ul style="list-style-type: none">• Attachment: http://www.naesb.org/pdf4/wgq_2012_ap_7b_rec_attach.docx (NGL Master Agreement)• Request for Formal Comments: http://www.naesb.org/pdf4/wgq_092112reqcom.doc – <i>comment period ends October 22, 2012</i>• Comments submitted by C. Metz, Enogex: http://www.naesb.org/pdf4/wgq_092112_enogex.docx• Comments submitted by S. Strauss, Lyondell Basell: http://www.naesb.org/pdf4/wgq_092112_lyondellbasell.pdf• Comments submitted by J. Lavery, Chevron: http://www.naesb.org/pdf4/wgq_092112_chevron.docx• Comments submitted by T. Pantazis, ConocoPhillips: http://www.naesb.org/pdf4/wgq_092112_conocophillips.docx• Comments submitted by E. Klecka, Targa: http://www.naesb.org/pdf4/wgq_092112_targa.docx |
| 4. | Consideration and Possible Vote on Minor Corrections (simple majority to approve) – please note that if the linked document is a request, it is under consideration by the Information Requirements/Technical Subcommittees and is not yet prepared for an EC vote, but it may be presented for vote should the IR/Tech Subcommittees prepare the recommendations prior to October 21

For the minor corrections in request form and not available for vote until the recommendation is prepared, they are indicated by an asterisk (*). The minor corrections are separated into those to be applied to Versions 1.9, 2.0 and the final actions for 2.1, and those to be applied to the final actions that will compose Version 2.1.

Version 2.1 applications: <ul style="list-style-type: none">• *MC12007 – For NAESB Version 2.1, Request is for new Nomination Quick Response Validation Codes – To the Nomination Quick Response document (1.4.2), add new Nominations Quick Response Validation Codes (Sub-detail). Minor Correction Request: http://www.naesb.org/pdf4/wgq_mc12007.doc• MC12033 – For NAESB Version 2.1, This request proposes the addition of 4 code values for the data element “Capacity Type Indicator” in the NAESB WGQ Standard 1.4.5 – Scheduled Quantity of the NAESB WGQ Version 2.1 release. Minor Correction: http://www.naesb.org/pdf4/wgq_mc12033.docx - <i>for WGQ EC consideration October 25, 2012</i> |



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**NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING
WHOLESALE GAS QUADRANT DRAFT AGENDA
Thursday, October 25, 2012 – 10:00 am to 4:00 pm E
Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA – Pump House Auditorium**

- | # | Agenda Item |
|----|--|
| | <ul style="list-style-type: none">• *MC12037 – For NAESB Version 2.1, This request proposes to correct the data element quick guide – Creation of Bid in the recommendation R11011 / MC11007 in the following data set: Bid NAESB WGQ Standard No.5.4.25. Minor Correction Request: http://www.naesb.org/pdf4/wgq_mc12037.doc• *MC12038 – For NAESB Version 2.1, This request proposes to correct recommendation R05027 - NAESB WGQ Standard Nos. 2.4.2, 2.4.4 and 3.4.1. Minor Correction Request: http://www.naesb.org/pdf4/wgq_mc12038.doc• *MC12039 – For NAESB Version 2.1, This request proposes to correct the transaction set tables for errors and warnings (Heading), (Detail), and (Sub-detail) in the following data set: Pre-determined Allocation Quick Response NAESB WGQ Standard No. 2.4.2. Minor Correction Request: http://www.naesb.org/pdf4/wgq_mc12039.doc |
| | Version 2.0 application |
| | <ul style="list-style-type: none">• MC12031 – For NAESB Version 2.0, Standard No. 5.4.16 and Standard No. 4.3.29 – Minor correction request for the WGQ standards to provide consistency in abbreviation for Imbalance Trading between the notice types used by Informational Posting Website and System-Wide Notices. Minor Correction: http://www.naesb.org/pdf4/wgq_mc12031.doc –for WGQ EC consideration October 25, 2012 |
| 5. | Subcommittee Updates (meeting materials for updates will be provided by leadership as they are available): <ul style="list-style-type: none">• Triage Subcommittee: http://www.naesb.org/pdf4/tr081412disposition.docx (Report), http://www.naesb.org/pdf4/tr091812agenda.docx (New Request)• Business Practices Subcommittee (BPS)• Electronic Delivery Mechanisms Subcommittee (EDM)• Information Requirements Subcommittee (IR)/Technical Subcommittee• Interpretations Subcommittee• Contracts Subcommittee |
| 6. | Publication Schedule Review <ul style="list-style-type: none">• WGQ Publication Schedule (Version 2.1): http://www.naesb.org/misc/wgq_publication_schedule_ver2_1.doc• WEQ Publication Schedule (Version 3.1): http://www.naesb.org/misc/weq_publication_schedule_ver3_1.doc• Retail Publication Schedule (Version 2.1): http://www.naesb.org/misc/retail_publication_schedule_ver2_1.doc |
| 7. | Board of Directors, Board Committee and Regulatory Updates: <ul style="list-style-type: none">• Board Meeting September 20, 2012: http://www.naesb.org/pdf4/bd092012dm.docx• Membership Update: http://www.naesb.org/misc/membership_report_092412.doc (Membership Report)• Board Revenue Efforts: http://www.naesb.org/pdf4/bd_revenue091412notes.docx (September 14 Notes); http://www.naesb.org/pdf4/bd092012w1.pdf (Presentation)• Board Retail Structure Review Committee: http://www.naesb.org/pdf4/rsrc091812a.docx (September 18 Notes)• Managing Committee: http://www.naesb.org/pdf4/managing082412notes.docx (August 24 Notes)• Gas-Electric Harmonization Committee: http://www.naesb.org/pdf4/bd092012a1.pdf (report); http://www.naesb.org/pdf4/092412press_release.pdf (press release)• Regulatory Updates:<ul style="list-style-type: none">• September 18, 2012 – NAESB report to the FERC of the Version 003 of the NAESB Wholesale Electric |



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**NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING
WHOLESALE GAS QUADRANT DRAFT AGENDA
Thursday, October 25, 2012 – 10:00 am to 4:00 pm E
Dominion Downtown Offices, 120 Tredegar Street, Richmond, VA – Pump House Auditorium**

Agenda Item

Quadrant standards. Standards for Business Practices of Public Utilities (Docket No. RM 05-5-022),
http://www.naesb.org/pdf4/ferc_091812_weq_version003_report.pdf

8. Other Business

- Meeting Schedule 2012: http://www.naesb.org/misc/2012_schedule.pdf
- Preparation for 2013 Annual Plan

9. Adjourn

Attire – Business Casual



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August 22, 2012

TO: NAESB Quadrant Executive Committee Members, Alternates and Interested Industry Participants
FROM: Jonathan Booe, Deputy Director
RE: Retail Executive Committee Meeting Draft Minutes

**NORTH AMERICAN ENERGY STANDARDS BOARD
RETAIL EXECUTIVE COMMITTEE MEETING
HOSTED BY KINDER MORGAN – COLORADO SPRINGS, COLORADO
August 22, 2012
DRAFT MINUTES**

1. Welcome

Mr. Precht called the meeting to order and welcomed the Retail Electric Quadrant (REQ) and Retail Gas Quadrant (RGQ) Executive Committee (EC) members and other participants. Mr. Booe provided the antitrust guidance and the REQ and RGQ members and other participants introduced themselves. Quorum was established.

2. Consent Agenda

Mr. Miyaji moved to adopt the consent agenda, which included the adoption of the [agenda](#), the meeting minutes from the [May 2, 2012](#) meeting and the modifications to the [2012 Retail Annual Plan](#) to be proposed to the Board of Directors. Mr. Jones seconded the motion and the motion passed without opposition.

3. Discussion on alternatives that can be used for subcommittee transfers or requests, or related requests to other subcommittees – specifically between the IR/TEIS Subcommittee and the Business Practices Subcommittee

Mr. Precht stated that the Business Practice Subcommittee (BPS) has received two requests for information and clarification from the Information Requirements / TEIS (IR/TEIS) regarding annual plan items assigned to the IR/TEIS. He stated that the BPS would like direction from the EC concerning how the BPS and other subcommittees should handle such request. He noted that the EC could add an item to the annual plan for the subcommittee receiving the request for information or the EC may determine that the request is being addressed as part of the assignment of the requesting subcommittee. Ms. McKeever stated that she supports creating an additional item on the annual plan, as it would provide a clear way to track the status of the recommendation's development. Ms. McQuade stated that this situation is typically addressed in other quadrants as part of the full staffing process and that changes to the annual plan are only necessary when a modification to a standard is necessary. Mr. Precht confirmed with Ms. McQuade that if there is a question or request for clarification from a subcommittee to another there is no need to modify the annual plan, unless the request necessitates a standards modification. Mr. Precht noted that the IR/TEIS request did not necessitate modifications to standards.

4. Consideration and vote on the 2012 Retail Annual Plan Item No. 13.a – Book 4 (Dispute Resolution) Update Existing Model Business Practices

Mr. Jones reviewed the [recommendation](#) with the EC members. He noted that the recommendation proposes standards modifications to expand the scope to include both formal and informal disputes and enlarge the applicability of the standard to other NAESB standards. He stated that the BPS submitted a set of [late comments](#) to add clarity to the executive summary of the standard. Ms. Munson moved to adopt the recommendation with the addition of the comments submitted by the BPS. Ms. McKeever seconded the motion. The motion passed a super majority vote of the RGQ and REQ EC. [Vote 1].



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5. Consideration and vote on the 2012 Retail Annual Plan Item No. 13.b - Book 12 (Inquiries) Update Existing Model Business Practices

Mr. Jones reviewed the [recommendation](#) with the EC members. He noted that the recommendation is proposed to expand the scope of the current standard and to improve consistency with other NAESB standards. He stated that the BPS submitted a set of [late comments](#) to add clarity to the executive summary of the standard. Mr. Jones moved to adopt the recommendation with the addition of the comments submitted by the BPS and to allow the NAESB office to make any spelling, grammar or format corrections. Ms. McKeever seconded the motion. Mr. Winkler noted that the Glossary Committee, in conjunction with the Wholesale Electric Quadrant (WEQ) Standards Review Subcommittee (SRS), should review the definition of Market Participant, as the term has a specific meaning in the wholesale market and could have an unintentional impact. Mr. Desselle noted that the WEQ EC discussed the need for additional coordination between the Retail Glossary Subcommittee and the WEQ SRS. Ms. McQuade recommended that a standing call between the subcommittee leadership be held once a month to review each other's actions. Mr. Eynon stated that the two subcommittees coordinate often and that an additional call is probably unnecessary. Mr. Desselle stated that adding the word "Retail" to term could address the issue. Mr. Eynon stated that the Glossary Subcommittee will discuss the item during their next meeting. The motion passed a super majority vote of the RGQ and REQ EC. [Vote 2].

6. Consideration and vote on the 2012 Retail Annual Plan Item No. 9.r – Review Book 0 (Overview of Model Business Practices and Master List of defined Terms), Book 1 (Market Participant Interactions), Book 6 (Contracts) and Book 21 (Energy Services Provider Interface) for the inclusion of definitions for all Defined Terms

Mr. Eynon reviewed the [recommendation](#) with the participants. He stated the recommendation proposes to update the definitions and that no comments were received. Mr. Winkler moved to adopt the recommendation with the caveat that it will be reviewed by the NAESB office to make spelling, grammar and formatting corrections. Ms. Munson seconded the motion. The motion passed a super majority vote of the RGQ and REQ Executive Committees. [Vote 3].

7. Consideration and vote on the Retail 2012 Annual Plan 9.b – Review / Update Book 2 - Creditworthiness Model Business Practices (RXQ.2)

Mr. Jones reviewed the [recommendation](#) with the EC members. He noted that no comments were submitted in response to the recommendation. Mr. Miyaji moved to adopt the recommendation with the addition of the comments submitted by the BPS. Ms. McKeever seconded the motion. The motion passed a super majority vote of the RGQ and the REQ EC. [Vote 4].

8. Consideration and vote on the Retail 2012 Annual Plan Item 10.a / R10002 - Create common interfaces and data structures necessary for enrolling DR sites into a DR program. Enrollment process Model Business Practices development (R10002)

Mr. Precht reviewed the [recommendation](#) with the EC members. He noted that the recommendation purposes a new REQ book and closely follows the standards addressing enrollment, drop and customer information change. The primary difference between the two standards is that the new book addresses the involvement of an aggregator. Mr. Precht noted that several comments were submitted on the recommendation. Mr. Winkler made a motion to adopt the recommendation submitted by the subcommittee and Mr. Miyaji seconded the motion. He also stated that the EVO comments do not specifically address the recommendation and recommended that they not be considered in the review of the recommendation. Mr. Precht asked if there was any objection to not considering the EVO comments related to the recommendation. No opposition was offered. Mr. Winkler stated that the comments submitted by [ISO New England, Midwest ISO, New York ISO, PJM, IESO and ERCOT](#) are in support of the recommendation as drafted. Mr. Allen stated that the comments submitted by [Southern Company](#) offer minor corrections and language changes for correction. Mr. Precht stated that the Retail Demand Response Work Group developed a set of [late comments](#) in response to the Southern Company comments and propose to reject or modify a number of the comments. The participants reviewed the proposed modifications offered by Southern Company in conjunction with the late comments of the Retail Demand Response Work Group and made modifications. After the



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review, Mr. Precht recommended that ratification of the recommendation be held until the Glossary Subcommittee has had an opportunity review the proposed modifications to the definitions. Ms. McKeever offered an amendment to the motion to accept the modifications discussed during the meeting and to allow the NAESB office to make spelling, grammar and formatting corrections during their review. The amendment was seconded by Ms. Munson and passed without opposition. Mr. Precht asked if anyone would like to offer any other comments on the motion. None were offered. The motion passed a super majority vote of the REQ EC. [Vote 5].

9. Consideration and vote on the Retail 2012 Annual Plan Item 3.b - Develop business practice standards used to measure and verify reductions in energy and Demand from energy efficiency in wholesale and retail markets. This includes developing business practice standards to measure and verify energy reductions for energy efficiency or a stand-alone Energy Efficiency Portfolio Standard

Mr. Precht reviewed the [recommendation](#) with the EC members. Mr. Miyaji made a motion to adopt the recommendation of the subcommittee and Mr. Winkler seconded the motion. Mr. Precht noted that [ISO New England](#) submitted a set of late comments that detail the history of the development of the standard. Mr. Winkler stated that the comments submitted by [ISO New England, Midwest ISO, New York ISO, PJM, IESO and ERCOT](#) state their support of the recommendation as drafted. Mr. Precht reviewed the comments submitted by [Southern Company](#). He recommended that the comment concerning the definition of "Energy Efficiency" be rejected and sent to the Glossary Subcommittee for their review as part of the full staffing process. The participants supported the incorporation of the remaining comments submitted by Southern Company. Mr. Winkler stated that standard REQ.19.3.4.1.4 may need to be modified to make the standard less ambiguous. Mr. Winkler stated that he will work with the NAESB office to submit a request to address his concerns about the standard. Mr. Allen made a motion to incorporate the comments submitted by Southern Company as discussed in the meeting. Ms. Munson seconded the motion and the motion passed without opposition.

Mr. Kromer reviewed the comments submitted by the [Efficiency Valuation Organization \(EVO\)](#). He stated that EVO's largest concern is that the recommendation removes reference to the well accepted guidelines of the International Performance Measurement and Verification Protocol (IPMVP). Mr. Precht recommended that the comments of EVO be rejected as the Retail standard is currently consistent with the WEQ Energy Efficiency standards which are currently the subject of a FERC Notice of Proposed Rulemaking (NOPR). He stated that any changes that are made to the WEQ Energy Efficiency as a result of the FERC NOPR process will be considered for the Retail version of the standard. Ms. McQuade noted that if changes are made, the Retail EC could reconsider the comments submitted by the EVO. Mr. Precht noted that the comments submitted by the [SRS and ERCOT, IESO, ISO New England, Midwest ISO, New York ISO, PJM and SPP](#) are to ensure consistency with the wholesale standard and will not result in changes to the recommendation. Mr. Winkler noted that rejecting the EVO comments and the accepting the recommendation of the DSM/EE Subcommittee as proposed will eliminate confusion and avoid intrusion upon the EVO framework. Mr. Precht asked if anyone would like to offer any other comments on the motion. None were offered. The motion passed a super majority vote of the REQ EC. [Vote 6].

10. Subcommittee Updates

Triage Subcommittee: Ms. McQuade provided an update of the Triage Subcommittee [activities](#). She noted that on May 10, 2012 there was one request assigned to the WEQ and three requests assigned to the WGQ. She also reviewed the [requests pending triage](#) and their proposed assignments.

Business Practices Subcommittee: Mr. Jones provided a review of the BPS activities. He noted that the subcommittee is currently working with the Retail Smart Grid Data Privacy Task Force and the DSM/EE subcommittee to address annual plan item 10.b, which calls for the development of a new standardized form to obtain Retail Customer's Authorization for the release of their information to a third party. He stated that the BPS is also working on the process flows for the development of model business practices and the update of each of the retail books. Currently, the subcommittee is focused on book 3 and is coordinating the work with the IR/TEIS to ensure consistency. The BPS has planned to address book 8 upon completion of book 3.



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DSM-EE Subcommittee: Mr. Booe provided an update of the DSM/EE activities. He noted the comment period of the NOPR on the wholesale standard was closed on July 30, 2012 and that over 20 comments were submitted to the FERC. Mr. Winkler applauded the efforts of the DSM/EE subcommittee in the development of the standards.

Information Requirements (IR) & Technical Electronic Implementation Subcommittee (TEIS): Ms. Ray provided an update of the IR/TEIS activities. She noted that the subcommittees are currently working on Book 10 and plan to vote on annual plan item 12 – session encryption during the August 27, 2012 conference call. The subcommittees have held 7 meetings this quarter and will continue to hold calls every three weeks through 2012. She also noted that there are concerns about participation in the subcommittee and would appreciate the guidance of the EC concerning how to garner additional participation. The subcommittee has discussed holding meetings in conjunction with the Board and EC meetings. Ms. McKeever stated that she does not support holding meetings in conjunction with the Board meeting as there is not a lot of crossover participation. She also noted that there is also not much cross over participation with the EC meetings. Ms. Ray stated that the subcommittee will discuss the issue further during their next meeting.

Glossary Subcommittee: Mr. Eynon provided an update of the Glossary Subcommittee activities. He stated that the subcommittee has not met since March 28, 2012 and the next meeting will be held on September 26, 2012 to address the terms and definitions resulting from DSM/EE work and a revise the definition for “Retail Customer.”

Smart Grid: Mr. Booe provided an update of the smart grid subcommittees activities. He reported that the Priority Action Plan (PAP) 10 Subcommittee met on July 26, 2012 to review REQ and WEQ recommendations proposing updates discussed during previous meetings and will meet in early September to consider them for a vote. He also noted that the SGIP has finalized the requirements for PAP 20, which is dedicated to the Green Button and the evolution of the ESPI standard. He stated that two requirements originally proposed by the PAP 20 participants were to make the schema contained in the ESPI standard freely available without restriction and to internationalize the ESPI standard by publication through an international standards body. Through discussion, the PAP 20 participants have agreed to develop a value proposition to present to NAESB as to why those requirements/requests are necessary for PAP 20 success and the Green Button initiative. Also related to the Green Button effort, NAESB has developed a map to be included on the NAESB ESPI [webpage](#) that highlights those utilities that have implemented green button capabilities for their customers. The map was developed with the approval of Nick Saini of the Office of Science and Technology Policy and at the request of several SGIP participants. The map can be found through a hyperlink on the ESPI website.

11. Publication Schedule Review

Ms. Rager provided an update of the [publication schedule](#). She noted that Retail Version 2.0 was published in April of this year and the next publication is scheduled for early 2013. She also stated that a link has been added to the Retail and Wholesale standards pages that contains the entire publication into a single zip file.

12. Board of Directors, Board Committee and Regulatory Updates

Board Updates: Ms. McQuade reviewed the activities of the Board of Directors and referenced the [minutes](#) of the last Board meeting held on June 21, 2012. She noted that Mr. Boswell provided a review of Board member duties and responsibilities during the meeting and the Board reviewed the actions of the Managing Committee concerning the recommendations of the [Revenue Committee](#) for revenue sources other than membership dues. The implementation of the Board’s recommendation concerning new non-member fees will take place in October of this year.

Regulatory Updates: Ms. McQuade provided a review of the filings that NAESB made over the last quarter. She noted that several of the filings have been atypical and have included reports to the [National Archives and Records Administration](#) and correspondence with Senator Reid concerning the WEQ Public Key Infrastructure standards.

13. Other Business

Ms. McQuade noted that the EC will be contacted shortly to begin planning for the 2013 Annual Plans. She also recommended that the REQ and RGQ EC discuss segment procedures that they would like to employ in the



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response to the operating practices concerning alternate voting in the case of abstentions. She noted that several segments have already submitted their segment procedures and encouraged the retail quadrants to do the same. Mr. Precht confirmed that the default procedure provides that the most senior alternate may vote in place of a member abstaining from a vote.

Ms. McQuade noted that an [additional request](#) was submitted after the last triage notice was distributed concerning the Data Privacy Standards and that the Data Privacy Task Force will likely be reactivated to address the request. Mr. Precht reviewed the [2012 schedule](#).

14. Adjourn

Mr. Winkler moved to adjourn the meeting and Mr. Miyaji seconded the motion. The meeting adjourned at 1:52 pm Mountain.



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15. Attendance and Vote Record

A blank cell indicates that the voter did not vote. The motions for which the voting results are detailed below are noted in the minutes.

RETAIL ELECTRIC QUADRANT

SERVICE PROVIDERS/SUPPLIERS SEGMENT		ATTENDANCE	VOTE 1	VOTE 2	VOTE 3	VOTE 4	VOTE 5	VOTE 6
Neal Alan alt. for Bill Barkas	Manager of Retail State Government Relations, Dominion Retail, Inc.	Phone	Support	Support	Support	Support	Support	Support
Jim Minneman	Controller, PPL Solutions, LLC	Phone	Support	Support	Support	Support	Support	Support
Wendell Miyaji	Vice President – Energy Sciences, Comverge, Inc.	In Person	Support	Support	Support	Support	Support	Support
Susan Munson	ERCOT Retail Market Liaison, Electric Reliability Council of Texas (ERCOT)	In Person	Support	Support	Support	Support	Support	Support

UTILITIES SEGMENT

Phil Precht	Management Consultant - Pricing and Regulatory Services Department, Baltimore Gas & Electric Company	In Person	Support	Support	Support	Support	Support	Support
Patrick Eynon	Supervisor – Retail Access, Ameren Services	Phone	Support	Support	Support	Support	Support	Support
Judy Ray	Industrial Segment Manager – Contract Administrator, Alabama Power Company	Phone	Support	Support	Support	Support	Support	Support
Debbie McKeever alt. for Michael J. Jesensky	Director, Demand–Side Analysis, Dominion Resources Services, Inc. (representing Dominion Virginia Power)	In Person	Support	Support	Support	Support	Support	Support

END USERS/PUBLIC AGENCIES SEGMENT

James Bradford Ramsay	General Counsel – Supervisor/Director – NARUC Policy Department, NARUC							
Eric Winkler alt. for Dennis Robinson	Director – Market & Resource Administration, ISO New England	In Person	Abstain	Abstain	Support	Abstain	Support	Support
Pam Stonier	Utilities Analyst, Vermont Public Service Board							

RETAIL GAS QUADRANT

SERVICE PROVIDERS/SUPPLIERS SEGMENT					
Richard Zollars	Director – Data and Billing, Dominion Retail, Inc.	Phone	Support	Support	Support
END USERS SEGMENT					
Dan Jones	Supervisor – Certified Supplier Business Center, Duke Energy	In Person	Support	Support	Support
Julie Compton Pellizzi	Project Leader, AGL Resources	Phone	Support	Support	Support

END USERS/PUBLIC AGENCIES SEGMENT



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16. Other Participants

Other Participant Attendance		
Participant	Organization	Attendance
Jonathan Booe	NAESB	In Person
Michael Desselle	SPP	In Person
Dante Keane	Warren Energy Engineering	Phone
Chris Kotting	EIS Alliance	Phone
Steve Kromer	EVO	Phone
Rae McQuade	NAESB	In Person
Veronica Thomason	NAESB	In Person
Leonard Tillman	Balch & Bingham	Phone
Jill Vaughn	Court Reporter	In Person
Kevin Warren	Warren Energy Engineering	Phone



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NORTH AMERICAN ENERGY STANDARDS BOARD

2012 ANNUAL PLAN for the RETAIL GAS and ELECTRIC QUADRANTS

Approved by the Board of Directors on September 20, 2012 with Leadership Changes for EC Consideration

Item Number & Description ¹	Completion ²	Assignment ^{3,4}
1. Develop Technical Electronic Implementation Standards and Data Dictionaries		
a.. Book 10: Retail Customer Enrollment, Drop and Account Information Change Status: Underway	4 th Q, 2012	IR/TEIS
b. Book 11: Retail Customer Enrollment, Drop and Account Information Change in Markets Supporting the Registration Agent Model Status: Completed	2011	IR/TEIS
c. Review and update the technical implementation of Book 3 – Billing and Payment. Status: Underway	4 th Q, 2012	IR/TEIS
2. Develop NAESB Certification checklist criteria for Retail Quadrants to be used in the NAESB Certification Program. The certification checklist may address test scripts, a checklist of items to be tested, data connectivity for test scripts and EDM testing. Status: Not Started.	2013	Ad Hoc EC Certification Group
3. 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. The wholesale and retail Demand Response work groups and the Smart Grid Standards Subcommittees should actively and timely communicate and coordinate work products to ensure consistency between the three work groups. Each work group should take into account the work products developed by the other.		
a. Develop glossary for business practice standards Status: Completed	2 nd Q, 2012	Joint WEQ/REQ DSM Subcommittee
b. Develop business practice standards used to measure and verify reductions in energy and Demand from energy efficiency in wholesale and retail markets. ⁵ This includes developing business practice standards to measure and verify energy reductions for energy efficiency or a stand-alone Energy Efficiency Portfolio Standard. Status: Completed	2 nd Q, 2012	REQ DSM-EE Subcommittee
c. Harmonize DSM-EE glossary with Retail Glossary Status: Completed	2 nd Q, 2012	REQ/RGQ Glossary Subcommittee
4. Review and develop model business practices to support renewable portfolio programs		
a. Develop Model Business Practice standards to support Renewable Portfolio Standards. Note: This is a separate item and there is no comparable WEQ standard Status: Not Started	4 th Q, 2012	REQ DSM-EE Subcommittee



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NORTH AMERICAN ENERGY STANDARDS BOARD
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Item Number & Description ¹	Completion ²	Assignment ^{3,4}
5. Overview of Retail Gas and Retail Electric Quadrant Procedures		
a. Develop process flows and online navigational aids to support the procedures and to be provided as Retail orientation materials. Status: Underway	3 rd Q, 2012	BPS
6. Additional Registration Agent Processes		
a. Develop Technical Electronic Implementation Standards and Data Dictionaries to support Model Business Practices of Book 14 – Service Requests, Disconnections and Reconnections in the Registration Agent Model Status: Not Started	2014, date dependent on completion of items 9i	IR/TEIS
7. Develop Smart Grid Wholesale and Retail Electric Standards		
a. Harmonize Smart Grid glossary with Retail Glossary Status: Ongoing	Ongoing	REQ/RGQ Glossary Subcommittee
b. Develop standards to support PAP 10 – Standards Energy Usage Information		
i. Develop Information Model and related business practices – Phase 2, Harmonization with CIM and SEP 2.0 Status: Underway	3 rd Q, 2012	Joint WEQ/REQ PAP 10 SGS Subcommittee
8. Customer Information - Develop Model Business Practices and Process Flows to enable a Retail Customer, or a third party acting on behalf of the Retail Customer, to obtain the Retail Customer's energy usage information on an on-going basis outside of a Smart Grid environment Status: Not Started, this development is tied to the development for item 9(d).	3rd Q, 2012 2013, date may be dependent on item 9d.	BPS
9. Update Existing Model Business Practices – Review and update all existing Model Business Practices, filling in any gaps that may exist and making the language consistent throughout all Books. ⁶		
a. Book 1 – Market Participant Interactions Status: Completed	1 st Q, 2012	BPS
b. Book 2 – Creditworthiness Status: Completed	3 rd Q, 2012	BPS
c. Book 3 – Billing and Payments Status: Underway	4th Q, 2012	BPS
d. Book 8 – Customer Information Status: Not Started	2013	BPS
e. Book 9 – Customer Billing and Payment Notification via Uniform Electronic Transactions Status: Not Started	2013	BPS
f. Book 10 – Customer Enrollment, Drop, and Account Information Change Status: Not Started	2013	BPS



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Item Number & Description ¹	Completion ²	Assignment ^{3,4}
g. Book 11 - Customer Enrollment, Drop, and Account Information Change Using a Registration Agent Status: Not Started	2013	BPS
h. Book 13 – Measurement and Verification (M&V) of Demand Response Programs ⁷ Status: Not Started	2013	BPS
i. Book 14 – Service Request, Disconnection and Reconnection in the Registration Agent Model Status: Not Started	2014	BPS
j. Book 15 – Specifications for Common Electricity Product and Pricing Definition ⁸ Status: Not Started	2014	BPS
k. Book 16 – Specifications for Common Schedule Communication Mechanism for Energy Transactions ⁸ Status: Not Started	2014	BPS
l. Book 17 – Specifications for Retail Standard Demand Response Signals ⁸ Status: Not Started	2014	BPS
m. Book 18 – Retail Customer Energy Usage Information Communication ⁸ Status: Not Started	2014	BPS
n. Book 21 – Energy Services Provider Interface ⁸ Status: Not Started	2014	BPS
o. Book 22 – Third Party Access to Retail Customer Information ⁸ Status: Not Started	2015	BPS
p. Book 23 – Supplier Marketing Practices Status: Not Started	2015	BPS
q. Book 24 – Enrollment, Drop, Account Information Change in Demand Response Programs ⁸ Status: Not Started	2015	BPS
r. Review the following Books for the inclusion of definitions for all Defined Terms: <ul style="list-style-type: none"> • Book 0 – Overview of Model Business Practices and Master List of Defined Terms • Book 1 – Market Participant Interactions • Book 6 – Contracts • Book 21 – Energy Services Provider Interface Status: Completed	2 nd Q, 2012	Glossary Subcommittee



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Item Number & Description ¹	Completion ²	Assignment ^{3,4}
10. Create common interfaces and data structures necessary for enrolling DR sites into a DR program		
a. Enrollment process Model Business Practices development (R10002) Status: Completed	2 nd Q, 2012	REQ DSM-EE Subcommittee
b. Develop a new standardized form to obtain the Retail Customer's Authorization for the release of their information to a third party Status: Underway	3 rd Q, 2012	REQ BPS, REQ DSM-EE Subcommittee, REQ Smart Grid PAP 10 Subcommittee Data Privacy Task Force
11. Registration Agent Model Agreements		
a. Review and compare the Production Connectivity Worksheet and the Trading Partner Worksheet to see if there are common attributes and determine if any changes to the worksheets are needed. Status: Not Started. Should changes be required, coordination with WGQ will be needed. Completed.	4 th Q, 2012	BPS
b. Review the Continuing Service Agreement used in the Registration Agent Model to see if it should become a NAESB agreement or whether another NAESB agreement contains the required elements. Status: Completed (BPS discussed this item on its June 26, 2012 conference call and decided that there was no need for this agreement and that the Annual Plan item should not be pursued.)	3 rd Q, 2012	BPS
12. Session Encryption		
a. Investigate and determine if changes to standards are needed to support adequate session encryption (SSL/TLS issues US-Cert Vulnerability Note VU#864643) Status: Underway	4 th Q, 2012	IR/TEIS
b. Modify or develop standards as needed to apply the analysis of the above item (12a) Status: Not Started	4 th Q, 2012	IR/TEIS
13. Review and modify standards as necessary to clarify the distinctions of inquiries and complaints, and develop processes for resolving inquiries and complaints		
a. Book 4 – Distribution Company – Supplier Disputes Status: Completed	2 nd Q, 2012	BPS
b. Book 12 – Customer Inquiries Status: Completed	2 nd Q, 2012	BPS



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Item Number & Description ¹	Completion ²	Assignment ^{3,4}
Program of Standards Maintenance & Fully Staffed Standards Work⁸		
Business Practice Requests	Ongoing	Assigned by the EC
Information Requirements and Technical Mapping of Business Practices	Ongoing	Assigned by the EC
Ongoing Interpretations for Clarifying Language Ambiguities	Ongoing	Assigned by the EC
Ongoing Maintenance of Code Values and Other Technical Matters	Ongoing	Assigned by the EC
Ongoing Development and Maintenance of Definitions	Ongoing	Glossary
Ongoing Development and Maintenance of Model Business Practices	Ongoing	BPS

Provisional Activities

Joint Effort:

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

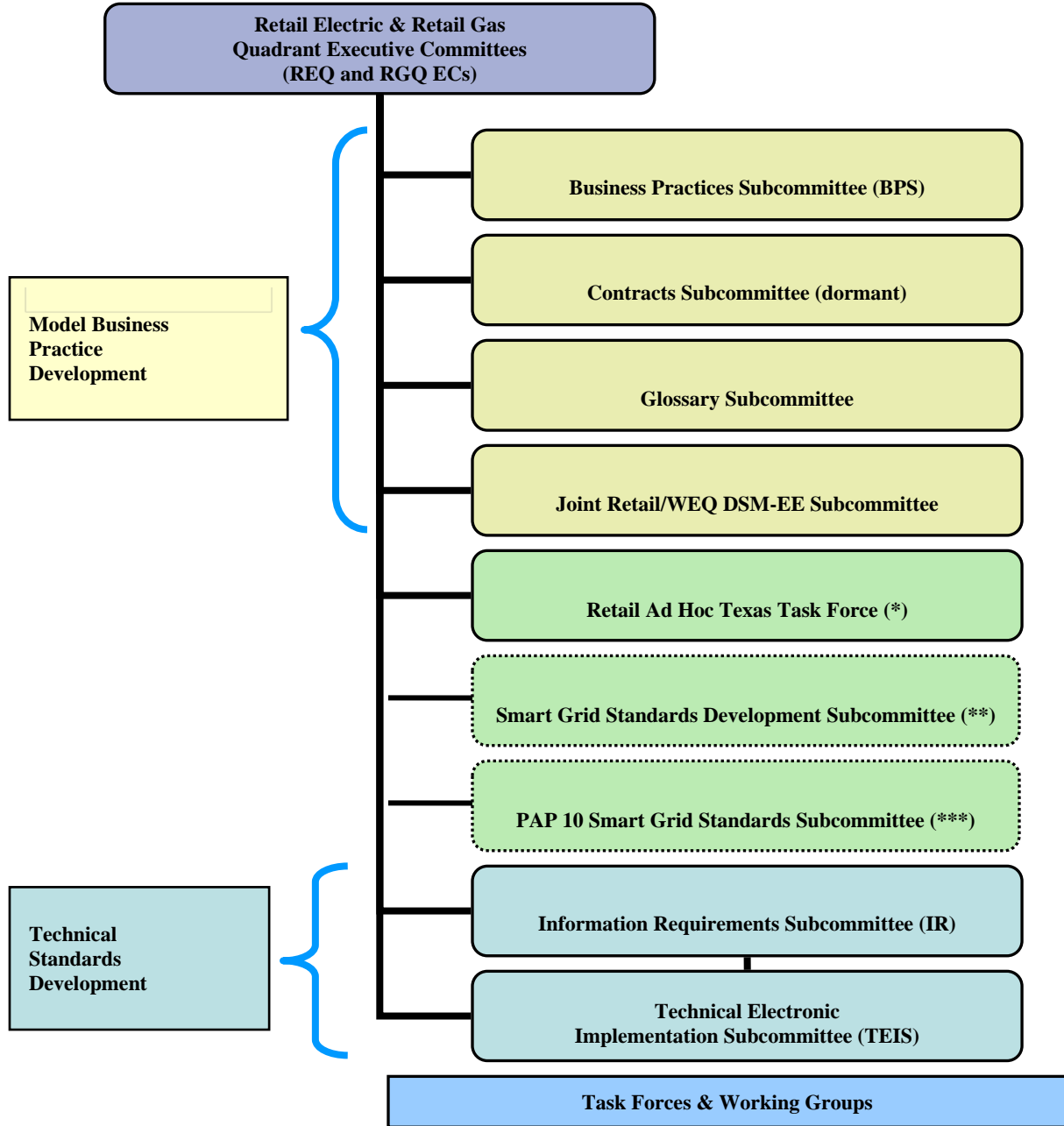
Retail Electric Quadrant Effort Only:

- Retail Meter Data Validation, Editing & Estimating: Develop procedures for ensuring the integrity and validity of Retail Customer metering data that is needed by Distribution Companies and suppliers for billing, etc. Issues related to unbundled or competitive metering are not to be considered.
- Settlement Process: Reconcile energy schedules and energy delivered by Suppliers within a given market. Note: will need to be coordinated with the WEQ for the REQ.



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NAESB Retail Subcommittee Leadership: ⁹

Executive Committee: Dan Jones, Chair (RGQ), Phil Precht, Chair (REQ)

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

Information Requirements Subcommittee: ~~Jennifer Teel (REQ)~~

Technical Electronic Implementation Subcommittee: Judy Ray (REQ)

Glossary Subcommittee: Patrick Eynon (REQ)

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

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

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

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

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

The PAP 10 Smart Grid Standards Subcommittee has created a Energy Services Providers Interface Task Force led by Dave Mollerstuen of Tendril, Steve Van Ausdall of Xtensible and Chad Maglaque of Xtreme Consulting Group to address the OpenADE request R10008.



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Retail 2012 Annual Plan End Notes:

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

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

³ The assignments are abbreviated. The abbreviations and committee structure can be found at the end of the Annual Plan document.

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

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

⁶ Note: BPS will not review Book 5 (Quadrant Specific Electronic Delivery Mechanism), Book7 (Internet Electronic Transport), or Book 20 (Smart Grid Standards Data Element Table)

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

⁸ 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.

⁹ 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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via email & Posting for Interested Parties, September 11, 2012

TO: Retail Structure Review Committee Members – Cade Burks, Jim Buccigross, Ruth Kiselewich, Mike Novak, Keith Sappenfield; Scott Brown and Retail Gas and Electric Board and Executive Committee Members; and Michael Desselle, Bruce Ellsworth, Bill Boswell, Ralph Cleveland, and Valerie Crockett.

FROM: Rae McQuade

RE: Announcement and Agenda for NAESB Retail Structure Review Committee Conference Call

Dear All – in response to the email sent on September 7 regarding availability, Tuesday September 18 at 10 am C fits most schedules. Below please find the agenda and working documents as well as the instructions for participating in the meeting.

TOPIC	INFORMATION/REQUESTS
Committee	<ul style="list-style-type: none">• The Retail Structure Review Committee was formed in December 2004 by Michael Desselle to address the issue of membership in the retail quadrants and the thresholds set for membership in quadrants and segments, and the number of segments. Periodic reports are made to the Board of directors on progress made towards meeting the membership thresholds and structural changes in support of the quadrants.• The mission of the group is: “The Retail Structure Review Committee functions solely at the pleasure of the NAESB Board of Directors and reports to the NAESB Board of Directors through the NAESB Board Managing Committee. The Committee will make recommendations to the full board to address the membership levels in the retail electric and retail gas quadrants through possible changes to NAESB By-laws, structural changes to the quadrants or their segments including merger of the two quadrants.”• The committee’s last meeting was May 2009, in which he committee recommended segment structural changes, later adopted by the Board of Directors. Since that date, the retail structure review discussions have been conducted at the Retail Leadership meetings that precede the Board meeting.• Materials for this group are posted on the NAESB web site in the Retail Structure Review Committee page: http://www.naesb.org/retail_structure_review.asp.
Call for Sept 18 conference call from 10 am to Noon C	<ul style="list-style-type: none">• In discussions with the Managing Committee on August 24, it was recommended that a Retail Structure Review Committee meeting be held to discuss the membership in the retail quadrants, the members in each segment, the number of segments, and the population of the Board and Executive Committee.• The results of this call will be highlighted at the Retail Leadership meeting on September 19 and the Board meeting on September 20.
Pre-meeting Assignments	<ul style="list-style-type: none">• Review the bylaw requirements for quadrant and segment membership and segment numbers (link provided in section on meeting materials).
Call-in & web cast information:	<ul style="list-style-type: none">• Call-in information for attendance by phone: Conference number: 866-740-1260, Access code: 7133560, Security code: 1022• Web cast: http:// www.readytalk.com, and use the same participant access code and security code above• Any interested party can attend.



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TOPIC	INFORMATION/REQUESTS
Draft Agenda	<ol style="list-style-type: none">1) Administrative – welcome, antitrust statement, introduction of attendees2) Review of list of Board and EC members and requirements of the bylaws3) Plan for preparing report to the Board of Directors of suggested actions4) Next Steps5) Adjourn
Meeting & Background Reference Materials	<ul style="list-style-type: none">• Antitrust Guidance: http://www.naesb.org/misc/antitrust_guidance.doc• Managing Committee Notes of August 24: http://www.naesb.org/pdf4/managing082412notes.docx.• Membership Report: http://www.naesb.org/misc/membership_report_090712.doc• Bylaws: http://www.naesb.org/pdf/naesbbylaws.pdf, (See Section 2.3, page 6)• Board Member Roster: http://www.naesb.org/pdf4/bod_terms.pdf• Executive Committee Roster: http://www.naesb.org/pdf4/ec_terms.pdf
Status & Context of Work	<ul style="list-style-type: none">• At each board meeting, the Retail Structure Review Committee provides an update on the progress towards meeting the membership thresholds. Each year, the Board is asked to consider whether to waive the requirement for a subsequent period while the group continues to make progress on membership numbers and consider structural changes.

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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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.

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

- 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.

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

- 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:

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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-

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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).

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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.

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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ARTICLE 3 - OFFICES

162 **Section 3.1 Offices**

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

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ARTICLE 4 - SEAL

167 **Section 4.1 Seal**

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

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ARTICLE 5 - MEMBERS

172 **Section 5.1 Voting Members**

173 (a) The general requirements for Voting Membership are set forth in Article IV,
174 Section 1 and 2 of the Certificate. Individuals, partnerships, firms or corporations
175 shall join as Members through application for Voting Membership in one or more
176 Quadrants and Segments. The membership requirements for each Quadrant and
177 Segment are set forth in Exhibits 1 through 4.

178 (i) Each Voting Member shall be entitled to one (1) vote in person or by
179 proxy, and shall designate in writing the individual authorized to cast that
180 vote.

181 (ii) Each Voting Member may vote by proxy. Every proxy shall be executed
182 in writing by the Voting Member or by such Voting Member's duly
183 authorized attorney in fact and filed with the Secretary of NAESB. A
184 proxy shall be revocable at will, notwithstanding any other agreement or
185 any provision in the proxy to the contrary. The revocation of a proxy shall
186 not be effective until notice thereof has been given to the Secretary of

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
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.

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008245 **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.

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008272 **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.

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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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BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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ARTICLE 8 - OFFICERS381 **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.

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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.

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

- 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.

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.

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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.

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

- 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.

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008546 **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.

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

- 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

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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.

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008718 **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

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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.

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008802 **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

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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.

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008857 **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

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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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BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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EXHIBIT 1

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WHOLESALE GAS QUADRANT PROCEDURES

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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EXHIBIT 2

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WHOLESALE ELECTRIC QUADRANT PROCEDURES

BYLAWS AMENDED BY THE BOARD OF DIRECTORS

November 21, 2008

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EXHIBIT 3

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RETAIL GAS QUADRANT PROCEDURES

BYLAWS AMENDED BY THE BOARD OF DIRECTORS
November 21, 2008

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EXHIBIT 4

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RETAIL ELECTRIC QUADRANT PROCEDURES

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North American Energy Standards Board

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

NORTH AMERICAN ENERGY STANDARDS BOARD 2012 BOARD TERMS – Wholesale Gas Quadrant

PRODUCERS SEGMENT		TERM END:
Richard D. Smith	Regulatory & Compliance Manager, Noble Energy, Inc.	12-31-2012
Mark Stultz	Senior Vice President – Regulatory Policy and Communications, North America Gas and Power, BP Energy	12-31-2013
Keith Sappenfield	Regional Director – US Regulatory Affairs, Encana Oil & Gas (USA), Inc.	12-31-2013
Randy E. Parker	Global Regulatory Advisor, ExxonMobil Gas and Power Marketing Company (a division of ExxonMobil Corporation)	12-31-2012
Pete Frost	Director – Regulatory Affairs, ConocoPhillips Gas and Power Marketing	12-31-2013
PIPELINE SEGMENT		
Douglas Field	Manager – Compliance, Southern Star Central Gas Pipeline	12-31-2012
Michael Langston	Vice President and Chief Regulatory Officer, Panhandle Energy (an Energy Transfer Interstate company)	12-31-2012
Gene Nowak	Vice President – Transportation & Storage Services, Interstate Pipelines for Kinder Morgan (Natural Gas Pipeline Co of America)	12-31-2012
Randy Young	Vice President – Regulatory Compliance and Corporate Services, Boardwalk Pipeline Partners, LP	12-31-2013
Richard Kruse	Vice President – Rates and Regulatory Affairs, Spectra Energy	12-31-2013
LOCAL DISTRIBUTION COMPANY (LDC) SEGMENT		
Craig Colombo	Energy Trader III, Dominion Resources	12-31-2012
Tim Sherwood	Managing Director of Gas Ops and Capacity Planning, AGL Resources	12-31-2012
Karl Stanley	Vice President of Commercial Operations NIPSCO, representing NiSource, Inc.	12-31-2013
James A. Stanzione	Director – Federal Gas Regulatory Policy, National Grid	12-31-2013
Perry Pergola	Director – Gas Supply, Vectren Corporation	12-31-2013
END USERS SEGMENT		
Valerie Crockett	Senior Program Manager - Energy Markets & Policy, Tennessee Valley Authority	12-31-2012
Timothy W. Gerrish	Director of Origination-Energy Marketing and Trading, Florida Power & Light	12-31-2012
Tina Burnett	Natural Gas Resources Administrator, The Boeing Company	12-31-2012
Lori-Lynn C. Pennock	Senior Fuel Supply Analyst, Salt River Project	12-31-2013
V A C A N C Y		12-31-2013
SERVICES SEGMENT		
Cleve Hogarth	Vice President & Chief Commercial Officer, Quorum Business Solutions, Inc.	12-31-2012
V A C A N C Y		12-31-2012
Marty Patterson	Senior Vice President Commercial Services, American Midstream Partners, LP	12-31-2013
Shelley L. Hurley	Partner, Accenture	12-31-2013
Sylvia Munson	Industry Specialist, SunGard Energy	12-31-2012



North American Energy Standards Board

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Home Page: www.naesb.org

NORTH AMERICAN ENERGY STANDARDS BOARD 2012 BOARD TERMS – Retail Electric Quadrant

SERVICE PROVIDERS/SUPPLIERS SEGMENT		TERM END:
Wendell Miyaji	Vice President - Energy Sciences, Comverge, Inc.	12-31-2013
Jim Minneman	Controller, PPL Solutions, LLC	12-31-2013
J. Cade Burks	Executive Vice President of ista	12-31-2012
Austin Morris	Managing Partner – Energy, SunGard Consulting Services, LLC	12-31-2012
UTILITIES SEGMENT		
Brandon Stites	Director – Energy Conservation & Advanced Metering, Dominion Virginia Power	12-31-2013
Dennis Derricks	Director Regulatory Policy and Analysis, Wisconsin Public Service Corporation	12-31-2013
Ruth Kiselewich	Director - Demand Side Management Programs, Baltimore Gas & Electric Company	12-31-2012
Debbie McKeever	Market Advocate, Oncor	12-31-2012
END USERS/PUBLIC AGENCIES SEGMENT		
Tobin Richardson	Director – Smart Energy, ZigBee Alliance	12-31-2013
Chris Kotting	Executive Director, Energy Information Standards Alliance	12-31-2013
James P. Cargas	Senior Assistant City Attorney, City of Houston	12-31-2012
V A C A N C Y		12-31-2012



North American Energy Standards Board

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NORTH AMERICAN ENERGY STANDARDS BOARD 2012 BOARD TERMS – Wholesale Electric Quadrant

TRANSMISSION SEGMENT		TERM END:	SUBSEGMENT:
Dan Klempel	Director Transmission Regulatory Compliance, Basin Electric Power Cooperative	12-31-2013	Muni/Coop
Chuck Feagans	Senior Manager, Reliability Policy, Tennessee Valley Authority	12-31-2012	Fed/State/Prov.
Terry J. Coggins	Manager – Transmission Policy, Southern Company	12-31-2012	IOU
Narinder Saini	Policy Consultant, Entergy Services, Inc.	12-31-2013	IOU
Mike R. Montoya	Director of Grid Advancement, Southern California Edison	12-31-2012	at large
Alex DeBoissiere	Senior Vice President – Government Relations, The United Illuminating Company	12-31-2013	at large
V A C A N C Y		12-31-2013	at large
GENERATION SEGMENT			
William J. Gallagher	Special Projects Chief, Vermont Public Power Supply Authority	12-31-2013	Muni/Coop
Kathy York	Senior Program Manager - Energy Markets, Policy, and Compliance Reporting, Tennessee Valley Authority	12-31-2012	Fed/State/Prov.
Lou Oberski	Director – Electric Market Policy, Dominion Resources Services, Inc.	12-31-2012	IOU
Wayne Moore	Vice President - Operations Compliance Officer, Southern Company.	12-31-2013	IOU
Aundrea Williams	Vice President – NRG Retail Regulatory Strategy & Policy, NRG Energy, Inc.	12-31-2013	Merchant
Joseph Hartsoe	Managing Director – Federal Policy, American Electric Power Service Corp.	12-31-2012	at large
V A C A N C Y		12-31-2013	at large
MARKETERS/BROKERS SEGMENT			
Roy True	Manager of Regulatory and Market Affairs, ACES Power Marketing	12-31-2012	Muni/Coop
Jeff Ackerman	Manager - Colorado River Storage Project Energy Management and Marketing Office, Western Area Power Administration	12-31-2013	Fed/State/Prov.
V A C A N C Y		12-31-2012	at large
V A C A N C Y		12-31-2013	at large
Jim Drake	Trading Desk Head - Power, Florida Power & Light	12-31-2012	IOU
R. Scott Brown	Vice President and Director, Exelon Generation Power Team	12-31-2013	IOU
V A C A N C Y		12-31-2013	at large



North American Energy Standards Board

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

DISTRIBUTION/LOAD SERVING ENTITIES (LSE) SEGMENT		TERM END:	SUBSEGMENT:
Arthur G. Fusco	Vice President and General Counsel, Central Electric Power Cooperative Inc.	12-31-2012	Muni/Coop
Paul McCurley	Manager – Power Supply, National Rural Electric Cooperative Association	12-31-2013	Muni/Coop
V A C A N C Y		12-31-2012	at large
Nelson Peeler	Vice President System Operations, Duke Energy	12-31-2013	IOU
V A C A N C Y		12-31-2013	at large
V A C A N C Y		12-31-2012	at large
Bruce Ellsworth	New York State Reliability Council	12-31-2013	At Large
END USERS SEGMENT			
Jesse D. Hurley	Chief Executive Officer, Shift Systems	12-31-2013	at large
V A C A N C Y		12-31-2012	at large
Thomas G. Dvorsky	Director of the Office of Electricity, Gas, and Water at the New York State Department of Public Service, rep. National Association of Regulatory Utility Commissioners	12-31-2012	Regulator
V A C A N C Y		12-31-2013	at large
V A C A N C Y		12-31-2012	at large
Lila Kee	Chief Product Officer and Vice President of U.S. Business Development, GMO GlobalSign, Inc.	12-31-2013	at large
Michehl Gent	Open Access Technology International, Inc.	12-31-2013	At Large
INDEPENDENT GRID OPERATORS/PLANNERS			
Michael Desselle	Vice President Process Integrity, Southwest Power Pool	12-31-2012	
Chuck Manning	Vice President of Human Resources and Chief Compliance Officer, Electric Reliability Council of Texas (ERCOT)	12-31-2012	
Kevin Kirby	Vice President Market Operations, ISO New England, Inc.	12-31-2012	
Rana Mukerji	Senior Vice President Market Structures, New York Independent System Operator, Inc. (NYISO)	12-31-2012	
Andy Ott	Senior Vice President Marketing, PJM Interconnection, LLC	12-31-2013	
Bill Phillips	Vice President Standards Compliance & Strategy, Midwest ISO (MISO)	12-31-2013	
Mark Wilson	Director of Corporate Planning, Independent Electricity System Operator (IESO)	12-31-2013	



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TECHNOLOGY AND SERVICES

Jim Buccigross	Vice President Energy Industry Practice, 8760 Inc.	12-31-2012
Laurent M. Liscia	Executive Director, Organization for the Advancement of Structured Information Standards (OASIS)	12-31-2012
David A. Wollman	Leader, Smart Grid Team – Standards and Electrical Metrology Groups, National Institute of Standards and Technology (NIST)	12-31-2012
V A C A N C Y		12-31-2012
V A C A N C Y		12-31-2013
Bill Hunter	Partner, Stryve Advisors, LLC	12-31-2013
TJ Ferreira	Director, Power Costs, Inc. (PCI)	12-31-2013

The subsegments noted in the above roster are:

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

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

End Use (also in another segment)

Federal/State/Provincial

IOU – Investor Owned Utility or IOU Affiliated

ITC – Independent Transmission Company

Large Industrials (not in other segments)

Merchant

Muni/Coop – Municipals, Cooperatives

Not IOU Affiliated

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

Regulator

Residential/Commercial

End Use (Self Generation)

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



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**NORTH AMERICAN ENERGY STANDARDS BOARD
2012 BOARD TERMS – Retail Gas Quadrant**

SERVICE PROVIDERS/SUPPLIERS SEGMENT		TERM END:
Leigh Spangler	President, Latitude Technologies Inc.	12-31-2012
Joseph C. Monroe	Vice President – External Affairs, SouthStar Energy Services, LLC	12-31-2012
Dave Darnell	President & CEO, Systrends USA	12-31-2013
Greg Lander	President, Capacity Center	12-31-2013
DISTRIBUTORS SEGMENT		
Alonzo Weaver	Vice President of Engineering and Operations, Memphis Light, Gas & Water Division (APGA)	12-31-2013
Ralph Cleveland	EVP and President, Nicor Gas	12-31-2013
Mike Novak	Assistant General Manager – Federal Regulatory Affairs, National Fuel Gas Distribution Corporation	12-31-2012
Richard Dobson	Manager Gas Supply (PGL/NSG), Integrys Energy Group, Inc.	12-31-2012
END USERS/PUBLIC AGENCIES SEGMENT		
V A C A N C Y		12-31-2012
V A C A N C Y		12-31-2012
V A C A N C Y		12-31-2013
V A C A N C Y		12-31-2013

North American Energy Standards Board Membership List
As of September 24, 2012

NAESB Membership Statistics – Changes by Quadrant for 2012 as of September 24, 2012

NAESB Membership Report - Quadrant/Segment Membership Analysis		Number of Members
WGQ Segments	TOTAL	113
	End Users	14
	Distributors	17
	Pipelines	42
	Producers	12
	Services	28
REQ Segments	TOTAL	26
	End Users/Public Agencies	12
	Utilities	6
	Service Providers/Suppliers	8
RGQ Segments	TOTAL	18
	End Users/Public Agencies	1
	Distributors	6
	Service Providers/Suppliers	11
WEQ Segments	TOTAL	131
	End Users	7
	Distributors	19
	Transmission	42
	Generation	23
	Marketers	23
	None Specified	1
	Independent Grid Operators/Planners	9
	Technology /Services	7

North American Energy Standards Board Membership List
As of September 24, 2012

WEQ	<p>New Members: 1- Public Utility District No. 2 of Grant County, Washington (Marketers/Brokers, Muni/Coop); 2- Associated Electric Cooperative, Inc. (Transmission, Muni/Coop); 3- Missouri River Energy Services (Distributors, Muni/Coop); 4- Maine Public Utilities Commission (End Users, Regulator); 5- New Jersey Board of Public Utilities (Generation, Fed/State/Prov.); 6- GMO GlobalSign, Inc. (End User, At Large); 7-Snohomish County PUD No.1 (Distributors, Muni/Coop); 8- White & Case LLP (Technology/Services)</p>	8
	<p>Member Resignations: 1- PPL Electric Utilities Corporation (Transmission, IOU); 2- PHI Power Delivery (Transmission/IOU); 3- Missouri River Energy Service (Distributors, Muni/Coop); 4- Energy Curtailment Specialists, Inc. (End Users, End Use); 5- Utility Integration Solutions, Inc. (Technology/Services); 6- Southern California Edison (Transmission, IOU); 7- Consumers Energy Company (Distributors, IOU); 8- Comprehensive Energy Services (End Users, End Use)</p>	8
WGQ	<p>New Members: 1- Williams Energy Resources, LLC (Services); 2- American Gas Association; 3- National Grid (LDC); 4- New Mexico Gas Company, Inc. (LDC); 5- Vectren Corporation (LDC)</p>	5
	<p>Member Resignations: 1- Cenovus Energy, Inc. (Services); 2- Ameren Corporation (LDC); 3- Caerus Energy (Services); 4- Washington Gas Light Co. (LDC); 5- Marathon Petroleum Company LP (End User); 6- PECO Energy Co. (LDC); 7- Lower Colorado River Authority (End User); 8- Energy Solutions International Inc. (Services); 9- Comprehensive Energy Services (End User)</p>	9
REQ	<p>New Members: 1- New Jersey Board of Public Utilities (End Users/Public Agencies); 2- ISO New England (End Users/Public Agencies)</p>	2
	<p>Member Resignations: Exelon Energy Delivery (Utilities)</p>	1
RGQ	<p>New Members:</p>	0
	<p>Member Resignations:</p>	0
TOTAL	<p>New Members:</p>	15
	<p>Member Resignations:</p>	18

North American Energy Standards Board Membership List
As of September 24, 2012

	Organization	Seg ¹	Contact	Sub-Seg ²
Retail Electric Quadrant Members:				
1	ABB Ventyx	s	Robert Pulcini, Karen Wei	
2	Alabama Power	u	Judy W. Ray	
3	Ameren Services Company	u	Patrick Eynon	
4	Baltimore Gas & Electric Co.	u	Ruth Kiselewich, Phil Precht	
5	City of Houston	e	James P. Cargas	
6	Comverge, Inc.	s	Wendell Miyaji	
7	Dominion Retail	s	William Barkas, Richard Zelenko	
8	Dominion Virginia Power	u	Brandon Stites	
9	Electric Reliability Council of Texas (ERCOT)	s	Susan Munson	
10	Energy Information Standards Alliance	e	Christopher Kotting	
11	Honeywell International, Inc.	e	Steve Gabel	
12	ISO New England	e	Dennis Robinson, Douglas Smith, Eric Winkler	
13	ista	s	Judy Bailey, J. Cade Burks, Jennifer Teel	
14	Maryland Public Service Commission	e	Steven Theroux	
15	National Association of Regulatory Utility Commissioners	e	James Bradford Ramsay	
16	New Jersey Board of Public Utilities	e	Kristi Izzo	
17	Oncor	u	Larry Williford, Debbie McKeever	
18	Pennsylvania Office Of Consumer Advocate	e	Tanya J. McCloskey, Sonny A. Popowsky	
19	Pennsylvania Public Utility Commission	e	Robert F. Wilson, Annunciata E. Marino	
20	PPL Solutions, LLC	s	James M. Minneman, Kim Wall	
21	Public Utilities Commission of Ohio	e	Christopher Kotting	
22	Southern Company Services	s	Chuck Darville	
23	SunGard Consulting Services, LLC	s	Austin Morris	
24	Vermont Public Service Board	e	Pam Stonier	
25	Wisconsin Public Service Corporation	u	Dennis Derricks, Ken Thiry	
26	ZigBee Alliance	e	Tobin Richardson	
Wholesale Gas Quadrant Members:				
1	8760, Inc.	s	Jim Buccigross	
2	Accenture, LLP	s	Jeff Miers	
3	AGL Resources Inc	l	Tim Sherwood	
4	Alliance Pipeline LP	pl	Cathie Legge, Brian Troicuk	

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

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

North American Energy Standards Board Membership List
As of September 24, 2012

	Organization	Seg ¹	Contact	Sub-Seg ²
5	American Gas Association	l	Andrew K. Soto, Sr., Pete Connor	
6	American Midstream Partners, LP	s	Marty Patterson	
7	ANR Pipeline Company	s	Sandy Meyers, Joseph E. Pollard, Rene Staeb, Debbie Forth, Carol Wehlmann, Radha Raman, Mary Doss	
8	Arizona Public Service Company	e	Tom Carlson, Norman Spooner	
9	Atmos Energy	pl	Steve Easley	
10	Baltimore Gas & Electric Co.	l	Phil Precht	
11	Barclays Bank PLC	s	Guy Kern-Martin, Michelle Hiley	
12	Bentek Energy, LLC	s	Jack Weixel	
13	BG Energy Merchants, LLC	s	Martha Braddy, Susan Bailey, David Buckley, Victoria Versen	
14	Boardwalk Pipeline Partners, LP	pl	Randy Young, Kim Van Pelt	
15	Boeing Co., The	e	Tina Burnett	
16	BP Energy	pr	Mark Stultz, Rhonda Denton	
17	Calpine Energy Services, LP	e	Shonnie Daniel, Jay Dibble	
18	Cargill Incorporated	s	Lester Welch	
19	Carolina Gas Transmission Corporation	pl	Rae Davis, Dana B. Randall	
20	CenterPoint Energy Services, Inc.	s	James G. Beste, Larry Kunkle	
21	CenterPoint Energy Gas Transmission Company	pl	Cindy Suarez, Larry Thomas	
22	CenterPoint Energy Mississippi River Transmission Corporation	pl	Cindy Suarez, Robert Trost	
23	Cheniere Pipeline Company	pl	Whit Scott	
24	Chevron Natural Gas	pr	Charles (Chuck) Cook	
25	Chevron Pipe Line Company	pl	Mary Anne Collins, Deborah Plattsmier, Jeff Kirk	
26	Cimarex Energy Co.	pr	Charlotte Baker	
27	Citigroup Energy Inc.	s	Carrie Southard, Angela Davis	
28	Colorado Springs Utilities	l	Joe M. Holmes	
29	Columbia Gas Transmission	pl	Claire Burum	
30	ConocoPhillips Gas and Power	pr	Catherine R. Abercrombie, Pete Frost	
31	Consolidated Edison Company of NY	l	Scott Butler, Chris Fan	
32	Constellation Energy Commodities Group Inc.	s	Lisa Simpkins, Joseph Kirwan, Andrea Kullman, Jennifer Scott, Stephen C. Knapp	
33	Dauphin Island Gathering Partners	pl	Katie Rice	
34	DB Energy Trading	s	William Donnelly, Travis McCullough	
35	Defense Logistics Agency Energy	e	Veronica Jones, Kevin Ahern	
36	Department of Energy	e	Christopher Freitas	
37	Devon Energy Corporation	pr	Bill Green, Josephina Nguyen, Mike Dionisio	
38	Dominion Resources	l	Craig Colombo	
39	Dominion Transmission, Inc.	pl	Gary Sypolt, Ron Tomlinson	
40	DTE Energy Trading, Inc.	s	Gregory V. Staton, James Buck, Dena Crawford, Marcia L. Hissong, Ann Marie Jambor, Cynthia Klots, Shelley Greene	
41	Eastern Shore Natural Gas Company	pl	Elaine B. Bittner	

North American Energy Standards Board Membership List
As of September 24, 2012

	Organization	Seg¹	Contact	Sub-Seg²
42	El Paso Exploration & Production Company	pr	Stephanie Karm	
43	Enbridge (U.S.) Inc.	pl	Brad Petzold	
44	Encana Marketing (USA) Inc.	s	Keith Sappenfield, Jeff Jarvis	
45	Encana Oil & Gas (USA) Inc.	pr	Keith Sappenfield, Jeff Jarvis	
46	Energy Transfer Partners, L.P.	pl	Josie Castrejana, Miki Kolobara	
47	Entergy Services, Inc.	e	Laura Berryman, Terry Shields	
48	Enterprise Products Partners L.P.	pl	Jeff Molinaro	
49	Equitrans, LP	pl	Paul W. Diehl	
50	ExxonMobil Gas & Power Marketing Company a division of Exxon Mobil Corporation	pr	Randy E. Parker, John W. Poe	
51	Florida Power & Light Company	e	Tim Gerrish, Art Morris	
52	Gas Transmission Northwest Corp.	pl	Joseph Pollard	
53	Golden Pass Pipeline, LLC	pl	Vickie Long	
54	Great Lakes Gas Transmission	pl	Joseph Pollard	
55	Iberdrola USA Management Corporation	l	Mark Marini	
56	Imperial Irrigation District	e	Susie Carrillo	
57	Integrus Energy Group, Inc.	l	David E. Wear	
58	Iroquois Gas Transmission System	pl	Tom Gwilliam	
59	JP Morgan Ventures Energy Corp	S	Paul Tramonte	
60	Kern River Gas Transmission Co	pl	Brenda Horton	
61	Kinder Morgan Western Region Pipelines	pl	William Griffith	
62	Latitude Technologies	s	Leigh Spangler	
63	Louis Dreyfus Energy Services	s	Tara Liscombe, W. Scott Harwood	
64	Macquarie Energy LLC	s	Darlene Volker, Michele McLendon	
65	Marathon Oil Company	pr	Robin Perrine	
66	Mewbourne Oil Company	pr	Michael F. Shepard	
67	National Fuel Gas Supply Corp.	pl	Deborah Kupczyk	
68	Natural Gas Pipeline Co of America	pl	Paul Love, Gene Nowak	
69	National Grid	l	James A. Stanzione	
70	New Mexico Gas Company Inc.	l	Ericka DeCoursey	
71	Nexen Marketing	s	Deb Strang, Sharron Roberts	
72	NextEra Energy Power Marketing, LLC	e	Marty Jo Rogers	
73	NiSource, Inc.	l	Deepak Raval, Michael D. Watson	
74	Noble Americas Corp	pl	Joseph Limone, Marisa Scauzillo, Vanessa R. Mathieu	
75	Noble Energy, Inc.	pr	Richard Smith, Tammy M. Stevens	
76	Northern Border Pipeline Company	pl	Joseph Pollard	
77	Northern Natural Gas	pl	Nancy A. Hetrick	
78	Northwest Natural Gas Company	l	Randolph Friedman	
79	NOVA Gas Transmission Ltd.	pl	Sherry Hill, Bob Jones	
80	OGE Energy Resources, Inc.	s	Cary Metz	
81	ONEOK	l	Larry Dykes	

North American Energy Standards Board Membership List
As of September 24, 2012

	Organization	Seg ¹	Contact	Sub-Seg ²
82	ONEOK Partners GP, LLC	pl	Teri Tingler, Lisa Nishimuta	
83	PAA Natural Gas Storage, LLC	s	Eileen W. Kisluk	
84	Panhandle Eastern Pipe Line	pl	Michael Langston, Larry Biediger	
85	Peoples Gas System (A division of Tampa Electric Co)	l	Wraye Grimard	
86	Portland Natural Gas Transmission System	pl	Sherry Hill, Bob Jones	
87	PPL EnergyPlus, LLC	e	Anne Lovett	
88	QEP Resources, Inc.	pr	Steve Stanton	
89	Questar Pipeline Co.	pl	Jerry H. Gross	
90	Quorum Business Solutions Inc.	s	Cleve Hogarth, Seth Peters	
91	Salt River Project Agricultural Improvement & Power District	e	Lori-Lynn C. Pennock	
92	Sempra Energy - Southern California Gas Co.	l	Lee Stewart, Rodger Schwecke	
93	Sempra U.S. Gas & Power	pl	Bill Rapp, Elizabeth Peters	
94	Sequent Energy Management, L.P.	s	Pat Metteauer	
95	Shell Energy North America (US), L.P.	s	Eric Gillaspie	
96	SNL Financial	s	Katrina Sumey	
97	Southern California Edison Company	e	Roman Bakke, Rob Grimm	
98	Southern Company Services, Inc.	e	Alan Kilpatrick, Travis DeJuan Law	
99	Southern Star Central Gas Pipeline	pl	Philip Rullman, Doug Field	
100	Southwest Gas Corporation	l	Larry Black, Mark Anderson, Mark Litwin, John Olenick	
101	Spectra Energy Transmission	pl	Richard Kruse, Kathryn Burch	
102	SunGard	s	Sylvia Munson	
103	Tennessee Gas Pipeline Company	pl	Mark Gracey	
104	Tennessee Valley Authority	e	Valerie Crockett	
105	Tiger Natural Gas	s	R.F. (Bob) Smith	
106	TransCanada Pipelines	pl	Sherry Hill, Bob Jones	
107	Transwestern Pipeline Company, LLC	pl	Blair V. Lichtenwalter, Mary Draemer, David Mendoza	
108	Vector Pipeline L.P.	pl	Amy Bruhn	
109	Vectren Corporation	l	Elizabeth Beck	
110	WBI Energy Transmission, Inc.	pl	Keith Tiggelaar, Gwen Schoepp, Kelly Brooks, Lori Myerchin	
111	Williams Energy Resources, LLC	s	Tina Still, Cindy Bottomley, Kelly Knopp	
112	Williams Gas Pipeline	pl	Dale Davis, Christopher Burden	
113	WPX Energy Marketing, LLC	s	Rich Ficken	

Wholesale Electric Quadrant Members:

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

North American Energy Standards Board Membership List
As of September 24, 2012

	Organization	Seg¹	Contact	Sub-Seg²
6	American Municipal Power, Inc.	m	Chris Norton, Alice Walker	muni
7	American Public Power Association	d	Allen Mosher	muni
8	Arizona Public Service Company	t	Robert Bean	iou
9	Arkansas Electric Cooperative Corporation	g	Ricky Bittle	muni
10	Associated Electric Cooperative, Inc.	t	Jeff Johns	muni
11	Avista Corporation	t	Jeff Schlect, Kenneth Dillon	iou
12	Basin Electric Power Cooperative	t	Dan Klempel	muni
13	Basin Electric Power Cooperative	m	David Raatz	muni
14	Basin Electric Power Cooperative	g	Jason Doerr	muni
15	BC Hydro	t	Al Woodruff, Brenda Ambrosi	fed
16	Black Hills Corporation	g	Larry D. Williamson, Kenna Hagan	iou
17	Bonneville Power Administration	d	Richard Gillman	other
18	Bonneville Power Administration	g	Francis Halpin, Erika Doot	fed
19	Bonneville Power Administration	m	Brenda Anderson, Ann Shintani	fed
20	Bonneville Power Administration	t	Russ Mantifel, Chris Jones	fed
21	California Department of Water Resources	g	Glenn Solberg, Chi Doan	fed
22	California ISO	i	Brian Jacobsen	
23	Central Electric Power Cooperative	d	Arthur Fusco	muni
24	Cleco Power, LLC	t	Cindy Guillot	iou
25	Consolidated Edison Company of New York, Inc.	t	Scott Butler, Chris Fan	iou
26	Deseret Power Electric Co-op	g	Curt Winterfeld	muni
27	Dominion Energy Marketing, Inc.	g	Lou Oberski	iou
28	Duke Energy Commercial Asset Management, Inc.	g	Kevin Carter	iou
29	Duke Energy Corp.	d	Alan Pritchard	iou
30	Dynergy Marketing and Trade, LLC	g	Contracts – Legal Department	merc
31	Edison Electric Institute	n	David Owens, Dave Dworzak, James P. Fama	n
32	Electric Reliability Council of Texas (ERCOT)	i	Bill Blevins, Paul Wattles, Joel Mickey	
33	Empire District Electric Company, The	t	Bary K. Warren	iou
34	Entergy Services, Inc.	t	Narinder Saini	iou
35	Exelon Generation - Power Team	m	Jack Crowley	iou
36	First Energy Service Company	d	Robert M. Martinko, Thomas C. Burgess	iou
37	Florida Municipal Power Agency	g	Frank Gaffney, Dan O'Hagan	muni
38	Florida Municipal Power Agency	d	Frank Gaffney, Dan O'Hagan	muni
39	Florida Power & Light Company	m	Jim Drake, Tom Hartman	iou
40	Florida Power & Light Company	t	Bob Birch	iou
41	Georgia Transmission Corporation	t	Patrick McGovern	muni
42	GMO GlobalSign, Inc.	e	Lila Kee	at large
43	Hydro – Quebec Transenergie	t	Glenn Sylvain	fed
44	Iberdrola USA Management Corporation	t	Mark Marini	iou
45	Idaho Power Company	t	Kathy Anderson	iou
46	Independent Electricity System Operator (IESO)	i	Scott Berry, Mike Yealland	

North American Energy Standards Board Membership List
As of September 24, 2012

	Organization	Seg¹	Contact	Sub-Seg²
47	Indiana Municipal Power Agency	g	Scott Berry	muni
48	ISO New England, Inc.	i	Matthew F. Goldberg, Douglas Smith, Eric Winkler	
49	LG&E and KU Services Company	t	Derek A. Rahn, Larry Monday	IOU
50	Lincoln Electric System	g	Douglas Bantam	muni
51	Los Angeles Department of Water and Power	t	Mohammed Johar Beshir	muni
52	Los Angeles Department of Water and Power	m	Bradford L. Packer, Joel F. Cordero	muni
53	Maine Public Utilities Commission	e	Denis Bergeron	reg
54	Manitoba Hydro	t	Robin Smyrski	fed
55	Manitoba Hydro	m	Shannon Jones	fed
56	Michigan Public Power Agency	d	James R. Nickel, Peter J. Schimpke	muni
57	MidAmerican Energy Company	m	Dennis Kimm	iou
58	Midwest Independent Transmission System Operator	i	William (Bill) Phillips, Ed Skiba	
59	Midwest Reliability Organization	t	Dan Schoenecker	at large
60	Missouri River Energy Services	d	Thomas J. Heller	muni
61	Nalcor Energy	m	Brad Coady	fed
62	National Association of Regulatory Utility Commissioners	e	Lou Ann Westerfield	reg
63	National Grid	t	Edward M. Kremzier	iou
64	National Institute of Standards and Technology	ts	David A. Wollman	
65	National Rural Electric Cooperative Assoc.	d	Paul McCurley	muni
66	Nebraska Public Power District	t	Don Schmit	muni
67	New Jersey Board of Public Utilities	g	Kristi Izzo	fed
68	New York Independent System Operator (NYISO)	i	Rana Mukerji, Donna Pratt	
69	New York State Reliability Council	d	P. Donald Raymond	at large
70	North American Electric Reliability Corporation	d	David Taylor	at large
71	North Carolina Electric Membership Corporation	d	David Beam, Diane Huis, Richard McCall, James R. Manning	muni
72	Northeast Utilities Service Company	t	David Boguslawski, Calvin A. Bowie	iou
73	Northwestern Corporation	t	Mike Cashell	iou
74	NRG Energy, Inc.	g	Alan Johnson, Jennifer J. Vosburg, Elizabeth Killinger	merc
75	NV Energy	m	Sheryl Torrey	iou
76	NV Energy, Inc.	t	Patricia Englin	iou
77	Open Access Technology International, Inc.	e	Michehl Gent	at large
78	Open Access Technology International, Inc.	t	Paul R. Sorenson	at large
79	Organization for the Advancement of Structured Information Standards (OASIS)	ts	Laurent M. Liscia	
80	PacifiCorp	m	John Apperson	iou
81	PacifiCorp	t	Sarah E. Edmonds	iou
82	PJM Interconnection	i	Frank Koza, Cathy Wesley	
83	Portland General Electric	t	Frank Afranji, John Walker. Johnny Useldinger	iou
84	Power Costs, Inc. (PCI)	ts	TJ Ferreira	
85	Powerex Corp	m	Michael L McWilliams, Sharole Tylor	fed

North American Energy Standards Board Membership List
As of September 24, 2012

	Organization	Seg¹	Contact	Sub-Seg²
86	PowerSouth Energy Cooperative	d	William Ronald Graham	muni
87	Progress Energy	m	John Sturgeon	iou
88	Progress Energy	t	Jack Armstrong, Michael Anthony, Lee Schuster	iou
89	Public Service Company of New Mexico	m	Steven Maestas, Darren Wilkins, Patricia Merville, Roger Vaughn	iou
90	Public Utilities Commission of Ohio	e	Christopher Kotting	reg
91	Public Utility District No. 2 of Grant County, Washington	m	Casey Sprouse	muni
92	Puget Sound Energy, Inc.	t	George Marshall, Bob Harshbarger	iou
93	Sacramento Municipal Utility District	d	Steve Sorey	muni
94	Salt River Project Agricultural Improvement and Power District	t	Luke O'Dwyer, Michael J. Pfeister	fed
95	Salt River Project Agricultural improvement and Power District	m	Richard Lehman	fed
96	San Diego Gas & Electric Company	t	Patricia vanMidde	iou
97	Santee Cooper	t	Tom Abrams	fed
98	Seattle City Light	d	Cathy Leone-Woods	muni
99	Seminole Electric Cooperative, Inc.	m	Steve Wallace	muni
100	Shell Energy America (US), L.P.	m	Robert Reilley, Paul Kerr	niou
101	Shift Systems	e	Jesse D. Hurley	at large
102	Snohomish County PUD No. 1	d	Kim Haugen	muni
103	South Carolina Electric & Gas Company	t	S. Porcher Stoney, James T. Starling, Jr. , Sonya Green-Sumpter, Matt Bullard, Kevin Spitzform	iou
104	Southern Company Services, Inc.	g	John Ciza	iou
105	Southern Company Services, Inc.	m	Joel Dison	iou
106	Southern Company Services, Inc.	t	Joshua Jenkins, Terry Coggins, JT Wood, James Y. Busbin, Corey Sellers, Antonio Grayson	iou
107	Southwest Power Pool	i	Carl Monroe, Michael Desselle, Charles Yeung	
108	Southwest Transmission Cooperative, Inc.	t	Shane Sanders, James Burson	muni
109	Southwestern Power Administration	t	Tracey Stewart	fed
110	Stryve Advisors, LLC	ts	Rachel Bryan	
111	SunGard	ts	Andrew Tritch, Rick Lentz	
112	Tenaska, Inc.	g	Scott Helyer, William Simpson	merc
113	Tennessee Valley Authority	g	Kathy York	fed
114	Tennessee Valley Authority	m	Luis A. (Tony) Suarez, Valerie Crockett	fed
115	Tennessee Valley Authority	t	Chuck Feagans	fed
116	Tri-State Generation and Transmission Association, Inc.	t	Carla Javornik, Doug Reese	muni
117	Tri-State G&T Association, Inc.	g	Janelle Marriott	muni
118	Tucson Electric Power Company	t	Raquel Aguilar, Judy Fregoso, Ed Beck, Amy Welander	iou
119	United Illuminating Company, The	t	Jim Clemente, Laurie Lombardi	iou
120	Vermont Public Power Supply Authority	g	William J. Gallagher	muni
121	Vermont Public Service Board	e	Pam Stonier	reg

North American Energy Standards Board Membership List
As of September 24, 2012

	Organization	Seg ¹	Contact	Sub-Seg ²
122	We Energies (Wisconsin Electric)	d	Linda Horn	iou
123	We Energies (Wisconsin Electric)	g	James R. Keller	iou
124	Westar Energy, Inc.	g	Grant Wilkerson	iou
125	Western Area Power Administration	t	JB Hite	fed
126	Western Area Power Administration	m	Jeffrey Ackerman	fed
127	Western Electricity Coordinating Council	t	Michelle Mizumori, Craig L. Williams	at large
128	White & Case LLP	ts	Richard Cousins	
129	Wisconsin Public Service Corporation	g	Christopher Plante, Charles W. Severance, Neal Balu	iou
130	WPPI Energy	d	Todd Komplin	muni
131	Xcel Energy Inc.	m	David Lemmons	iou

Retail Gas Quadrant Members:

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



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October 3, 2012

TO: NAESB Board of Directors, Executive Committee (EC) Members, EC Alternates, and Invited Guests
FROM: Jonathan Booe, NAESB Deputy Director
RE: Draft Minutes of the NAESB Board Meeting – September 20, 2012

NAESB BOARD OF DIRECTORS MEETING & MEETING OF THE MEMBERS
Four Seasons Hotel, Houston, Texas
Thursday, September 20, 2012 – 9:00 a.m. to 1:00 pm Central
DRAFT MINUTES

1. Administration and Welcome

Mr. Desselle welcomed the Board members and guests in the room and on the phone. Mr. Booe provided the antitrust and meeting policy guidance and Mr. Booe called the roll of the NAESB Board members. Quorum was established.

2. Adoption of the Consent Agenda

Mr. Dobson moved, seconded by Mr. Young, to approve the consent agenda, which included the [agenda](#), [draft minutes](#) from the June 21, 2012 Board of Directors meeting and the [Retail](#), [Wholesale Electric](#) and [Wholesale Gas](#) annual plans. The motion passed without opposition.

3. Membership and Financial Report

Membership Report: Ms. McQuade reviewed the membership [report](#) and [profile](#) with the Board members. She noted that there are currently 291 members and that during the last quarter the Wholesale Electric Quadrant (WEQ) experienced a net gain of two members, the Wholesale Gas Quadrant (WGQ) experienced a net loss of three members, the Retail Electric Quadrant (REQ) experienced a gain of one member and the Retail Gas Quadrant (RGQ) maintained the same number of members. She also requested that the Board members review the membership report to ensure that the listed primary contacts for their organizations are accurate.

Financial Report: Ms. McQuade reviewed the financial [profile](#) and [report](#). She stated that expenditures are under budget by \$68,000 through August but that the revenues collected are nearly \$120,000 less than what was projected for 2012 to date. She also noted that there has been a 21% increase in the number of meetings held from this time last year as well as an increase in the number of NAESB products purchased, and copyright waivers requested through the Lock Lizard software.

4. Reports from Board Committees

Resources Committee: Mr. True provided the report of the [Resources Committee](#). He noted that the meeting was held on Monday, September 17, 2012 rather than immediately prior to the Board meeting in an effort to increase participation. He stated that the participants reviewed the activities of the Revenue Committee, the vacant Board and Executive Committee seats and agreed to draft a letter to be distributed to prospective members. Mr. Desselle noted that he is considering the merger of the Revenue and Resources Committees moving forward. Mr. True supported Mr. Desselle's recommendation. Mr. Sappenfield noted that there may be renewed interest in joining NAESB as a result of the adoption of the NGL contract.

Revenue Committee: Mr. Desselle reviewed a [presentation](#) of the activities of the Revenue Committee and their recommendations since the last Board meeting. He stated that the Managing Committee has approved the recommendations of the Revenue Committee but would like the Board of Directors to consider and ratify the decisions of the Managing Committee. Specifically, he noted that the Managing Committee approved the implementation of a \$1,000 fee option for non-member individual participation in a subcommittee for one year, the institution of a \$1,000 annual fee for member Authorized Certification Authorities (ACA) and \$8,000 annual fee for



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non-member ACAs, an increase in the non-member certification fee for WGQ work products to \$8,000, and a nominal \$500 increase to the membership dues implemented equally over two years. Mr. Phillips moved to ratify the action of the Managing Committee described by Mr. Desselle. Mr. Burks seconded the motion. Mr. Kruse asked if the implementation of the non-member website and the non-member meeting attendance fee will cause an administrative burden on the NAESB staff. Ms. McQuade responded that the burden will be mitigated by automating many of the features of the new website and that adjustments can be made if the administrative burden becomes too great for the NAESB staff. Mr. Young asked if the subcommittee chairs will be asked to enforce the non-member meeting attendance fee. Ms. McQuade responded that the subcommittee chairs will not be asked to provide support in enforcement of the fees and that any violations will be addressed after the fact by the NAESB staff. Mr. Sappenfield recommended that ample notice of the new non-member policies be given to the industry. Mr. Parker stated that it would be in the organization's best interest to address the revenue losses as soon as possible and recommended implementing the \$500 increase in 2013 rather than splitting the increase over a two year period. He noted that the \$500 increase should not impact member companies in a significant way as it is only 7.5% increase, and over the period since the last increase, it is substantially less. Mr. Phillips and Mr. Burks accepted Mr. Parker's recommendation to adopt the \$500 increase in membership dues in 2013 rather than over a two year period. Mr. Kruse asked if some of the money will be specifically dedicated to address the organization's negative retained earnings. Mr. Desselle stated that negative retained earnings are typically addressed with the end of year budget surplus. Mr. Kruse stated that he would like the Revenue Committee to consider potential solutions to address the organization's negative retained earnings. Consideration of an assessment specifically targeted to the negative retained earnings was noted as a possibility. Mr. Desselle stated that he would schedule a Revenue Committee meeting to discuss options for addressing negative retained earnings, including an assessment. He asked for any additional discussion on the motion and none was offered. The motion as modified was adopted without opposition.

Managing Committee: Ms. Desselle provided an update of the Managing Committee activities on [July 20, 2012](#) and [August 24, 2012](#). He reviewed the NAESB policy concerning communications with the media or press adopted by the Managing Committee on July 20, 2012. Mr. Oberski made a motion to ratify the action of the Managing Committee and adopt the media and press policy. Mr. Fusco seconded the motion and the motion passed a simple majority vote.

Mr. Desselle reviewed the discussion of the Managing Committee concerning the number and format of Board Meetings in the future. He stated that it is the Managing Committee's recommendation that NAESB hold three Board meetings per year rather than four moving forward. First, a meeting in April to review the budget and the progress of the decisions made by the Board during the previous year, a second meeting in early September dedicated as a strategic session and meeting of the members and finally a meeting in December to approve the following year's annual plans and adopt the budget. Mr. Desselle noted that restructuring the number and format of the Board meetings would reduce costs, both financial costs and time costs, to the organization and the membership. He also noted that the Managing Committee discussed eliminating the Executive Committee level updates of their subcommittees as the issues are typically discussed during the leadership meetings held the day before the Board meeting. In lieu of the Executive Committee updates, updates from each of the leadership meetings will be provided during each Board meeting. Mr. Oberski confirmed that the leadership meetings would continue to take place the day before the Board meeting if the recommended changes are implemented. Mr. Burks moved to adopt the recommendations of the Managing Committee related to the number and format of future Board meetings. Ms. Crockett seconded the motion. Ms. McQuade noted that the Managing Committee would continue to provide updates of their activities and decisions as they take place if the change is implemented. Mr. True stated that a conference call during the summer to update the Board on the organization's activities would be helpful. Ms. Crockett noted that Board members could participate in the monthly update calls to receive updates on the organization's activities. Ms. McQuade stated that short conference call could be held in the July timeframe to address any administrative matters if necessary. Mr. Desselle asked for any additional discussion on the motion and none was offered. The motion was adopted without opposition.



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5. Strategic Overview and Discussion with Panel

PKI, Accreditation and the Certification Program: Mr. Buccigross provided an overview of the WEQ-012 Business Practice Standards and Accreditation Specification that were adopted by the Executive Committee on August 21, 2012. He noted that the ratification period of the WEQ-012 Business Practice Standards ends October 4, 2012 and that the OASIS Subcommittee and Joint Electric Scheduling Subcommittee (JESS) are currently in the process of making conforming changes to the OASIS Business Practice Standards and Coordinate Interchange Business Practice Standards to be considered by the Executive Committee in late October and early November. Mr. Spangler noted that as result of the PKI Subcommittee efforts a few minor changes to the Board Certification Committee Authorized Certificate Authority Process were identified. In response, the Certification Committee met and made the [conforming changes](#) included in the Board materials. Mr. Ellsworth made a motion to adopt the changes to the Board Certification Process proposed by the Certification Committee and Mr. Spangler seconded the motion. Mr. Desselle noted that the Managing Committee discussed the PKI related standards activities and recommended that Ms. McQuade consult with FERC staff concerning the appropriate time to file the WEQ-012 Business Practice Standards upon ratification. Mr. Desselle asked for any additional discussion on the motion and none was offered. The motion was adopted without opposition.

Retail Restructuring: Ms. McKeever provided an update of the [Retail Structure Review Committee](#) activities. She stated that the Committee held a conference call September 18, 2012 to discuss the status of the retail quadrants related to the NAESB Bylaw membership requirements. During the call the committee discussed the lack of membership in the Retail Gas Quadrant and specifically the lack of participation on the RGQ EC. She noted that the committee specially discussed a proposal to create a single Retail Executive Committee comprised of the current REQ segments and an additional retail gas segment. She stated that the committee does not have a formal proposal for the Board to consider and they would like to request that the Board delay consideration of the membership thresholds waiver and any proposed changes from the committee until the December meeting. No opposition was offered. Mr. Kruse stated that membership within the retail quadrants has been an issue since their creation and that he is concerned that the actions taken by the retail quadrants are not representative of a member driven organization. It was noted that as the Retail Gas Quadrant has not been able to realize growth over the past several years, the quadrant could be dormant or inactive until such time as the Board determines the quadrant is viable with both membership overall and members on the Board and EC. Mr. Spangler stated that combining the retail quadrants would be representative of the industry in the marketers and service company segments. Mr. Novak stated that suspending the entire retail gas quadrant would create issues with maintaining the existing retail gas standards. Mr. Minneman supported Mr. Novak's statement. Mr. Stites asked if merging the two retail gas quadrants would affect membership. Ms. McQuade stated that merging the two quadrants would potentially result in the loss of two members that maintain multiple memberships. Mr. Desselle thanked Ms. McKeever and asked that the Retail Structure Review Committee bring a recommendation to the Board of Directors at the December meeting.

Gas-Electric Harmonization: Ms. Crockett provided an update of the Gas-Electric Harmonization effort and a summary of the [report](#) that was voted out of the Committee on August 27, 2012. She requested that the invited guests provide any additional comments they see fit prior to Board consideration of the report.

Commissioner Simon stated that his remarks do not reflect those of the California Public Utilities Commission. He noted that he serves as the chair of the National Association of Regulatory Utility Commissioners (NARUC) Gas Committee and that he believes the report reflects the view of NARUC. He stated that he will present the report to NARUC at their next meeting and request that NARUC endorse a resolution stating support of the report's findings. He also noted his support for the report's recognition of regional differences and its balanced and comprehensive nature.

Ms. Tierney thanked NAESB for allowing her to participate on the Committee and thanked Ms. Crockett for her leadership that resulted in the timely delivery of the report. She stated that the report is representative of the discussions held by the Committee and responsive to the request of the National Petroleum Council (NPC). She strongly recommended that the Board adopt the recommendations of the report and endorse it as a NAESB position. She added that Ms. Crockett did a wonderful job leading the effort and making sure that the report was delivered in a timely manner.



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Mr. Thorne stated that he had a positive experience as a Committee member and believes that the effort was thorough, fair and well led. He noted that after attending two of the FERC conferences on the subject, he believes that the effort is very timely and that the report is possibly the most comprehensive document available on the issues to date. He noted that either regulatory action on the coordination issues or another reliability event is inevitable and that the report provides information on what NAESB can and should do under different circumstances. He stated his strong endorsement for adoption of the report.

Mr. Gee stated that he was honored to have participated on the Committee and supports the things that have already been said by the other guests. He stated that he believes the report is responsive of the request of the NPC and noted that the NPC report identified natural gas as the bulk of the fuel supply for power in the future. He recommended that NAESB consider the request of the NPC as an opportunity to take a leadership role and respond to that request by adopting the report of the Committee. He also noted that the report is not proscriptive and more closely resembles a roadmap of coordination issues.

Ms. Ogg reviewed NAESB's role in other transformative issues faced by the industry over the organization's twenty year history. She recognized the role that NAESB played during those times and recommended that the Board consider this as another opportunity for leadership. She noted the challenges that the industry may face if it does not respond to the need to more close align the two markets.

Ms. McIntyre stated that she did not participate in the Committee but based upon her work on cyber security issues in the industry she believes that presenting the government with options and industry recommendations for actions results in much more desirable outcomes. She stated that she supports NAESB taking a leadership role whenever possible on behalf of the industry.

Mr. Smead stated that the Gas Electric Harmonization effort and resulting report has created a needed foothold that could result in NAESB becoming the entity to address the issues that are appropriate for industry consideration. The result would be preferable as NAESB has the resources and experience to bring all affected entities to the table for discussion as well as the required credibility within the industry.

At the conclusion of the guest's remarks, Mr. Burks, seconded by Mr. Ellsworth made a motion to adopt the Committee report. Mr. Parker stated that he supports adding the recommended provisional items in the report to the annual plans but is concerned that if they are made active rather than provisional without policy direction, it is possible that NAESB will be unable to reach the consensus on the items. Mr. Desselle and Ms. Crockett confirmed that adopting the report would result in the addition of the three items described in the report as provisional annual plan items. They can only be moved to active status if the Board supports such a change for the annual plans. Mr. Desselle asked for any additional discussion on the motion and none was offered. The motion was adopted without opposition.

6. Updates from Leadership Meetings

WGQ: Mr. Buccigross provided an update of the results of the WGQ leadership meeting. He noted that the Contracts Subcommittee has completed both the Government Acquisitions Provision Addendum (GAPA) and a base contract for natural gas liquids and will soon begin meetings to discuss the possible implications of Dodd-Frank on the NAESB Base Contract. He also stated that the Electronic Data Mechanisms (EDM) Subcommittee completed their update of the WGQ Quadrant Electronic Data Mechanisms (QEDM) Manual and that the Business Practices Subcommittee and Information Requirements /Technical Subcommittees have been working together on a number of items including the elimination of the common codes and a response to FERC Order No. 587 concerning the definition of design capacity.

WEQ: Ms. York provided an update of the results of the WEQ leadership meeting. She noted that the Version 003 standards were filed with FERC on September 18, 2012 and that NAESB is planning to hold a meeting to review the standards with the membership. She also noted that participants discussed the comments submitted by the Standards Review Subcommittee on the NERC Reliability Plan, the progress of the transition of the Transmission Service Information Network (TSIN) Registry to the NAESB Electric Industry Registry (EIR) and the work of the Joint



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Electronic Scheduling Subcommittee and the OASIS Subcommittees to develop complementary standards to the adopted WEQ-012 standards.

Retail: Ms. McKeever provided an update of the results of the Retail leadership meeting. She stated that the participants discussed the activities of the Retail Structure Review Subcommittee and the action they may recommend to the Board during the December meeting. She also noted that the group reviewed the Retail annual plan and discussed the decisions made by the Revenue Committee.

Ms. McQuade stated that she is going to send out another reminder to the Executive Committee requesting that each segment develop procedures for alternate selection in the event of an abstention vote. Mr. Desselle noted that Mr. Boswell has developed some suggested language to be added to the segment procedures that the segments may want to consider related to the removal of Board members. He stated that the language will be distributed to the Board members for their consideration.

7. Old and New Business

Ms. McQuade reviewed the organization's interactions with external groups including comments submitted to the FERC and correspondence with Senator Reid, as well as a number of speaking engagements that she has been invited to on behalf of the organization. She noted that she has been asked to make remarks at a number of other conferences over the next few months will be attending as a representative of NAESB.

Mr. Desselle thanked the guests for their attendance at the Board meeting and expressed his gratitude to all of the volunteers that contributed to the large number of standards that were developed for consideration at the August Executive Committee meetings.

8. Adjourn

The meeting adjourned at 11:28 am Central.

9. Board Attendance (Vacancies Omitted)

WGQ PRODUCERS SEGMENT		ATTENDANCE
Richard D. Smith	Regulatory & Compliance Manager, Noble Energy Inc.	In Person
Mark Stultz	Vice President – Policy and Regulatory Affairs, US America Gas and Power, BP Energy Company	
Keith Sappenfield	Regional Director – US Regulatory Affairs, EnCana Oil & Gas (USA), Inc.	In Person
Randy E. Parker	Global Regulatory Advisor, ExxonMobil Gas and Power Marketing Company	In Person
Pete Frost	Director - Regulatory Affairs, ConocoPhillips Gas and Power Marketing	
WGQ PIPELINE SEGMENT		
Douglas Field	Manager – Compliance, Southern Star Ventral Gas Pipeline	In Person
Michael Langston	Vice President and Chief Regulatory Officer, Panhandle Eastern Pipe Line (an Energy Transfer Interstate company)	In Person
Randy Young	Vice President – Regulatory Compliance and Corporate Services, Boardwalk Pipeline Partners, LP	In Person
Richard Kruse	Senior Vice President, Spectra Energy Transmission	In Person
WGQ LOCAL DISTRIBUTION COMPANY (LDC) SEGMENT		
Craig Colombo	Energy Trader III, Dominion Resources	In Person
Tim Sherwood	Managing Director of Gas Operations and Capacity Planning, AGL Resources	



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9. Board Attendance (Vacancies Omitted)

Karl Stanley	Vice President of Commercial Operations NIPSCO, representing NiSource, Inc.		
James A. Stanzione	Director – Federal Gas Regulatory Policy, National Grid		In Person
Perry Pergola	Director – Gas Supply, Vectren Corporation		In Person
WGQ END USERS SEGMENT			
Valerie Crockett	Senior Program Manager – Energy Markets & Policy, Tennessee Valley Authority		In Person
Timothy W. Gerrish	Director of Origination-Energy Marketing and Trading, Florida Power & Light		
Tina Burnett	Natural Gas Resources Administrator, The Boeing Company		In Person
Lori-Lynn C. Pennock	Senior Fuel Supply Analyst, Salt River Project		In Person
WGQ SERVICES SEGMENT			
Cleve Hogarth	Vice President & Chief Commercial Officer, Quorum Business Solutions		In Person
Marty Patterson	Senior Vice President Commercial Services, American Midstream Partners, LP		
Shelley L. Hurley	Partner, Accenture LLP		
Sylvia Munson	Industry Specialist, SunGard Energy		In Person
REQ SERVICE PROVIDERS/SUPPLIERS SEGMENT			
Wendell Miyaji	Senior Director – Systems, Comverge, Inc.		Phone
Jim Minneman	Controller, PPL Solutions LLC		Phone
J Cade Burks	Executive Vice President of ista		In Person
Austin Morris	Managing Partner – Energy, SunGard Consulting Services, LLC		In Person
REQ UTILITIES SEGMENT			
Brandon Stites	Director – Energy Conservation & Advanced Metering, Dominion Virginia Power		In Person
Dennis Derricks	Director Regulatory Policy and Analysis, Wisconsin Public Service Corporation		Phone
Ruth Kiselewich	Director – Demand Side Management Programs, Baltimore Gas & Electric Company		Phone
Debbie McKeever	Market Advocate, Oncor		In Person
REQ END USERS/PUBLIC AGENCIES SEGMENT			
James P. Cargas	Senior Assistant City Attorney, City of Houston		
Tobin Richardson	Director – Smart Energy, ZigBee Alliance		Phone
Chris Kotting	Executive Director, Energy Information Standards Alliance		Phone
WEQ TRANSMISSION SEGMENT		SUBSEGMENT	
Dan Klempel	Director Transmission Regulatory Compliance, Basin Electric Power Cooperative	Muni/Coop	
Chuck Feagans	Senior Manager, Reliability Policy, Tennessee Valley Authority	Fed/State/Prov	Phone
Terry Coggins	Manager – Transmission Policy, Southern Company	IOU	



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9. Board Attendance (Vacancies Omitted)

	Transmission		
Alex DeBoissiere	Senior Vice President – Government Relations, The United Illuminating Company	at large	Phone
Mike Montoya	Director of Grid Advancement, Southern California Edison	at large	
Narinder Saini	Policy Consultant, Entergy Services, Inc.	at large	In Person

WEQ GENERATION SEGMENT

William J. Gallagher	Special Projects Chief, Vermont Public Power Supply Authority	Muni/Coop	Phone
Kathy York	Senior Program Manager – Energy Markets, Policy and Compliance Reporting, Tennessee Valley Authority	Fed/State/Prov	In Person
Lou Oberski	Director – Electric Market Policy, Dominion Resources Services, Inc.	IOU	In Person
Wayne Moore	Regulatory Affairs & Energy Policy Director and Compliance Officer – Generation, Southern Company Services, Inc.	IOU	In Person
Aundrea Williams	Vice President – NRG Retail Regulatory Strategy & Policy, NRG Energy, Inc.	at large	
Joe Hartsoe	Managing Director – Federal Policy, American Electric Power Service Corp.	at large	Phone

WEQ MARKETERS/BROKERS SEGMENT

Roy True	Manager of Regulatory and Market Affairs, ACES Power Marketing	Muni/Coop	In Person
Jeff Ackerman	Manager – Colorado River Storage Project Energy Management and Marketing Office, Western Area Power Administration	Fed/State/Prov	
Jim Drake	Trading Desk Head – Power, Florida Power & Light	IOU	Phone
R. Scott Brown	Vice President and Director, Exelon Generation Power Team	IOU	Phone

WEQ DISTRIBUTION/LOAD SERVING ENTITIES (LSE) SEGMENT

Arthur G. Fusco	Vice President and General Counsel, Central Electric Power Cooperative Inc.	Muni/Coop	In Person
Paul McCurley	Manager – Power Supply, National Rural Electric Cooperative Association	Muni/Coop	
Nelson Peeler	Vice President System Operations, Duke Energy	IOU	
Bruce Ellsworth	New York State Reliability Council	At-Large	In Person

WEQ END USERS SEGMENT

Jesse D. Hurley	Chief Executive Officer, Shift Research, LLC	at large	
Thomas G. Dvorsky	Director of the Office of Electricity, Gas, and Water at the New York State Department of Public Service, rep. National Association of Regulatory Utility Commissioners	Regulator	



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9. Board Attendance (Vacancies Omitted)

Michehl Gent	Open Access Technology International, Inc.	At-Large	Phone
WEQ INDEPENDENT GRID OPERATORS/PLANNERS			
Michael Desselle	Vice President Process Integrity, Southwest Power Pool		In Person
Chuck Manning	Vice President of Human Resources and Chief Compliance Officer, ERCOT		In Person
Kevin Kirby	Vice President Market Operations, ISO New England, Inc.		Phone
Rana Mukerji	Vice President Market Structures, New York Independent System Operator, Inc. (NYISO)		
Andy Ott	Senior Vice President Marketing, PJM Interconnection, LLC		
Bill Phillips	Vice President Standards Compliance & Strategy, Midwest ISO (MISO)		In Person
Mark Wilson	Director of Corporate Planning, Independent Electricity System Operator (IESO)		Phone
WEQ TECHNOLOGY AND SERVICES			
Jim Buccigross	Vice President Energy Industry Practice, 8760 Inc.		In Person
Laurent M. Liscia	Executive Director, Organization for the Advancement of Structured Information Standards (OASIS)		
David A. Wollman	Leader, Smart Grid Team – Standards and Electrical Metrology Groups, National Institute of Standards and Technology (NIST)		Phone
Bill Hunter	Partner, Stryve Advisors		In Person
TJ Ferreira	Director, Power Costs, Inc.		In Person
RGQ SERVICE PROVIDERS/SUPPLIERS SEGMENT			
Leigh Spangler	President, Latitude Technologies Inc.		In Person
Joseph Monroe	Vice President – External Affairs, SouthStar Energy Services, LLC		
Dave Darnell	President & CEO, Systrends USA		
Greg Lander	President, Capacity Center		
RGQ DISTRIBUTORS SEGMENT			
Alonzo Weaver	Vice President of Engineering and Operations, Memphis Light, Gas & Water Division (APGA)		
Ralph Cleveland	Senior Vice President – Engineering and Operations, AGL Resources, Inc.		
Mike Novak	Assistant General Manager – Federal Regulatory Affairs, National Fuel Gas Distribution		Phone
Richard Dobson	Manager Gas Supply (PGL/NSG), Integrys Energy Group, Inc.		In Person
RGQ END USERS/PUBLIC AGENCIES SEGMENT			



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10. Other Attendance

Name	Organization	Attendance
Nancy Bagot	EPSA	Phone
Jeb Bartley	Accenture Group	In Person
Jonathan Booe	NAESB	In Person
Bill Boswell	NAESB	In Person
Kathryn Burch	Spectra Energy	In Person
Jim Castle	New York ISO	In Person
Pete Connor	Representing American Gas Association	Phone
Chuck Cook	Chevron	In Person
Joel Cordero	Los Angeles Department of Water and Power	Phone
Cory Cummings		In Person
Dale Davis	Williams Gas Pipeline	In Person
Rhonda Denton	BP	In Person
Megan Doss	Spectra Energy	In Person
Bob Gee	Gee Strategies	In Person
Mark Gracey	Tennessee Gas Pipeline Company	In Person
Rachel Hogge	Dominion Transmission	In Person
Darilyn Jones	Accenture	In Person
Lila Kee	Globalsign	In Person
Elizabeth Mallet	NAESB	In Person
Annie McIntyre	Ardua Strategies	In Person
Rae McQuade	NAESB	In Person
Susan Munson	ERCOT	In Person
Gene Nowak	Northwest Gas Pipeline	In Person
Joelle Ogg	DC Energy	In Person
Alan Pritchard	Duke Energy	Phone
Denise Rager	NAESB	In Person
Deepak Raval	NiSource	Phone
Christopher Roth	Midwest ISO	Phone
Micki Schmitz	NNG	Phone
Commissioner Timothy Simon	California PUC	In Person
Lisa Simpkins	Constellation	In Person



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10. Other Attendance

Name	Organization	Attendance
Ed Skiba	Midwest ISO	In Person
Rick Smead	Navigant Consulting	In Person
Dave Taylor	NERC	Phone
Ron Tomlinson	Dominion Transmission	Phone
Veronica Thomason	NAESB	In Person
Terry Thorn	Kema Gas Consulting Services	In Person
Sue Tierney	Analysis Group	Phone
Caroline Trum	NAESB	In Person
Kim Van Pelt	Boardwalk Pipeline	In Person
Jill Vaughan	Preferred Legal Services	In Person
Darla Wishart	NAESB	Phone
Charles Yeung	SPP	In Person



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September 17, 2012
via posting

TO: NAESB Executive Committee (EC) Members, posting for interested parties
FROM: NAESB Office
cc: EC Alternates, Submitters, Subcommittee Chairs of Subcommittees noted in text below
RE: NAESB Triage Actions Taken for Requests Nos. R12005 to R12007

Dear Triage Subcommittee and EC members,

Three requests were sent out for review and determination on August 14 – R12005 to R12007-- provided below as hyperlinks. There were no requests for conference call for discussion. The requests were all triaged with approval on August 27, as follows:

For [R12005](#), submitted by [Micki Schmitz](#) on behalf of Northern Natural Gas:

This request is (1) found within scope; (2) to be assigned to the Wholesale Gas Quadrant (WGQ); and (3) because it is a request to add a data element to the Service Requester Level Charge/Allowance Invoice, it should be assigned the WGQ Business Practices Subcommittee. While there was nothing in the request indicating that it should be assigned a high priority, therefore, it should be addressed in the normal course of business of the subcommittee.

For [R12006](#), submitted by [James R Manning](#) on behalf of North Caronia Electric Membership Corporation:

This request is (1) found within scope; (2) to be assigned to the Wholesale Electric Quadrant (WEQ); and (3) because it is a request to improve transparency to allow customers to determine whether they have been treated in a non-discriminatory manner by posting of additional information on OASIS when service is denied (i.e. refused or declined) by customer(s) using new SAMTS process across multiple transmission systems to serve their NITS load on multiple systems, it should be assigned the WEQ OASIS Subcommittee. While there was nothing in the request indicating that it should be assigned a high priority, therefore, it should be addressed in the normal course of business of the subcommittee.

For [R12007](#), submitted by [Dale Davis](#) on behalf of Williams Gas Pipeline:

This request is (1) found within scope; (2) to be assigned to the Wholesale Gas Quadrant (WGQ); and (3) because it is a request to modify WGQ Standard No. 5.3.70 to allow the use of Notice Type as an alternative to the Notice Type Abbreviation, it should be assigned the WGQ Business Practices Subcommittee. While there was nothing in the request indicating that it should be assigned a high priority, therefore, it should be addressed in the normal course of business of the subcommittee. [While this was noted without a requirement for expediting development, it was discussed at the August 23 WGQ Executive Committee, with the intent that it be completed prior to publication of the WGQ Version 2.1 standards, scheduled for March 2013.]

If you have any questions on a specific request, please contact the requestor directly -- the email address is provided as a link with the request. The noted dispositions for the requests and the requests themselves were forwarded to the Triage Subcommittee and EC members on August 14. The review and comment period concluded on August 27 and as there were no dissents or comments requiring amendments, the requests were considered assigned as noted. As such, the requests are considered in scope and assigned to the indicated subcommittees for development.



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September 18, 2012
Via email and posting

TO: NAESB Executive Committee (EC) Members, posting for interested parties
FROM: NAESB Office
cc: EC Alternates, Submitters, Subcommittee Chairs of Subcommittees noted in text below
RE: NAESB Triage Actions Pending for Requests Nos. R12008 to R12009

Dear Triage Subcommittee and EC members,

We have two requests to triage –R12008 – R12009 -- provided below as hyperlinks. The NAESB office recommends the following dispositions for your consideration:

For [R12008](#), submitted by [Marianne Swanson](#) on behalf of the Smart Grid Interoperability Panel Cyber Security Working Group:

This request is (1) found within scope; (2) to be assigned to the Retail Electric Quadrant (REQ); and (3) because it is a request to develop additional privacy and cyber security requirements for NAESB REQ Standard No. 22, it should be assigned to the REQ Smart Grid Data Privacy Working Group. While there was nothing in the request indicating that it should be assigned a high priority, therefore, it should be addressed in the normal course of business of the group. This request and its possible committee assignments were discussed on August 22 at the Retail Executive Committee meetings in Colorado Springs.

For [R12009](#), submitted by [Paul Love](#) on behalf of Kinder Morgan Inc.:

This request is (1) found within scope; (2) to be assigned to the Wholesale Gas Quadrant (WGQ); and (3) because it is a request to modify WGQ Standard No. 5.4.22 to add data elements for contract begin and end dates, it should be assigned the WGQ Business Practices Subcommittee. While there was nothing in the request indicating that it should be assigned a high priority, therefore, it should be addressed in the normal course of business of the subcommittee.

If you have any questions on a specific request, please contact the requestor directly -- the email address is provided as a link with the request. If you have any concerns on the above actions, please respond via email with your concern stated, and we will convene a conference call for its resolution. Comments may certainly be provided and will be posted on the [Triage Subcommittee](#) page of the NAESB web site. If no concerns are raised, then on Monday October 1, the dispositions as noted above will be considered approved.



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**NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ)
OCTOBER 10, 2012**

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

Version 2.0 was published on November 30, 2010.

2011-12:

Final Actions:

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

Final Action: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r11004_mc11001-04.doc – *Ratified September 19, 2011*

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

Final Action: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r10005.doc – *Ratified September 19, 2011*

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

Final Action: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r09008.doc – *Ratified September 19, 2011*

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

Final Action: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r09009.doc – *Ratified September 19, 2011*

2011 WGQ Annual Plan Item 6 – **Decline** to implement any revisions or modification to 2006 NAESB Base Contract after industry input and discussion under Annual Plan Item 6. "Review typical industry Special Provisions to the NAESB Base Contract for consideration to be integrated into the NAESB Base Contract. Review is to include corresponding updates to other related documents (e.g. Canadian Addendum, ISDA Amendment and Model Credit Support Addendum and Frequently Asked Questions)" approved by the WGQ Executive Committee on August 18, 2011.

Final Action (no action to be taken): http://www.naesb.org/pdf4/wgq_2011_ap_6_ec081811_fa.doc - (*No further action needed*)

C10001 - Clarification of the word Tariff under Informational Posting. NAESB WGQ Standard No. 4.3.23 does not specify if the category Tariff under Informational Posting includes negotiated rates, non-conforming agreements, Volume 2s, and X-rate schedules within the definition approved by the WGQ EC via Notational Ballot on May 19, 2011.

Final Action: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_c10001.doc - (*Ratified August 1, 2011*)



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NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ) OCTOBER 10, 2012

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

Final Action: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r10009.doc - Ratified July 1, 2011

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

Final Action: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r10003.doc – Ratified April 18, 2011

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

Final Action: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r09016.doc – Ratified April 18, 2011

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

Final Action: http://www.naesb.org/member_login_check.asp?doc=fa_wgq_r09018.doc - Ratified March 17, 2011

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

Final Action: (no changes necessary) http://www.naesb.org/pdf4/wgq_r10007_rec_123010.doc - *(No further action needed)*

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

http://www.naesb.org/pdf4/wgq_mc11022.doc.)

Final Action: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_c11002.doc - Ratified November 28, 2011

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

http://www.naesb.org/pdf4/wgq_mc11022.doc.)

Final Action: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_c11003.doc - Ratified November 28, 2011



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NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ) OCTOBER 10, 2012

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

Final Action - H: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r97064_h.doc

Attachment 1: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r97064_h_attach1.doc

Attachment 2: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r97064_h_attach2.doc

Attachment 3: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r97064_h_attach3.doc

Attachment 4: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r97064_h_attach4.doc

Attachment 5: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r97064_h_attach5.doc – *Ratified December 2, 2011*

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

Final Action: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_2011_api_8a.doc – *Ratified December 28, 2011*

R11007: Modify the Discount Indicator Code Value Description for Code Value 1 and 2 as approved by the WGQ Executive Committee on February 23, 2012.

Final Action: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r11007.doc – *Ratified March 30, 2012*

R05027: Add two new data elements to the Nomination and Scheduled Quantity data sets that 1) permit the service requestor to identify a specified path for the nominated transaction, and 2) provide shippers the ability to identify the specific month of an imbalance they may want to clear as approved by the WGQ Executive Committee on February 23, 2012.

Final Action: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r05027.doc – *Ratified March 30, 2012*

R10004: Change the usage of the element Ending Time from Mandatory to Business Conditional in the Nominations dataset; Change the usage of the elements Beginning Time and Ending Time from Mandatory to Business Conditional in the Pre-determined Allocation dataset and Change the usage of Beginning Time (or equivalent element for the specific document below) and Ending Time (or equivalent element for the specific document below) from Mandatory to Senders Option in the Request for Confirmation, Confirmation Response, Scheduled Quantity and Scheduled Quantity for Operator, Allocation, Shipper Imbalance, Measurement Information, Measured Volume Audit Statement, and Transportation / Sales Invoice documents as approved by the WGQ Executive Committee on February 23, 2012.

Final Action: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r10004.doc – *Ratified March 30, 2012*

C11005: Clarification or interpretation request: In WGQ Standard No. 5.3.2, clarify the meaning of the phrase, “open season ends no later than 1:00 pm on a Business Day” as approved by the WGQ Executive Committee on February 23, 2012.

Final Action: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_c11005.doc – *Ratified March 30, 2012*

R11008: Add one new data element “Life of Reserves Indicator” in the Transaction Dataset NAESB WGQ Standard No. 5.4.21 (Transactional Reporting – Firm Transportation) as approved by the WGQ Executive Committee on May 3, 2012.

Final Action: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r11008.doc - *Ratified June 11, 2012*



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NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ) OCTOBER 10, 2012

2012 WGQ Annual Plan Item No.6 - NAESB Base Contract Addendum for Federal Acquisition Regulations (FAR) and Government Contract Compliance (GCP) clauses as approved by the WGQ Executive Committee on May 3, 2012.

Final Action: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_2012_api_6.doc – *Ratified June 11, 2012*
Attachment - Government Acquisition Provisions Addendum (GAPA) to the Base Contract for Sale and Purchase of Natural Gas: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_2012_api_6_attach_gapa.doc
Attachment - FAQs Related to Government Acquisition Provisions Addendum (GAPA):
http://www.naesb.org/member_login_form.asp?doc=fa_wgq_2012_api_6_attach_gapa_faqs.doc

R11016 - Add a new data set, Swing Service Overtakes as approved by the WGQ Executive Committee on August 23, 2012.

Final Action (no standardization is necessary): http://www.naesb.org/pdf4/wgq_r11016_ec082312_fa.doc - (*No further action needed*)

2012 WGQ Annual Plan Item 9 – Investigate and determine if changes to standards are needed to support adequate session encryption (SSL/TLS issues [US-Cert Vulnerability Note VU#864643](#)) as approved by the WGQ Executive Committee on August 23, 2012.

Final Action: http://www.naesb.org/pdf4/wgq_2012ap9_ec082312_fa.doc - (*No further action needed*)

2011 WGQ Annual Plan Item 7 - Determine if location common codes as formulated are needed. If location common codes are needed, then determine if existing specifications are sufficient, or conversely, if not needed, develop plan for modifications to support removal of location common code from NAESB WGQ standards.

Recommendation: http://www.naesb.org/pdf4/wgq_2011_api_7_rec.doc (*approved by the WGQ EC on October 27, 2011 submitted to WGQ IR/Technical for processing*)

2011 WGQ Annual Plan Item 7 / 2012 WGQ Annual Plan Item 8 (C12003) – Modify standards to remove location common code from NAESB WGQ standards as approved by the WGQ Executive Committee on August 23, 2012.

Final Action – Part A:

http://www.naesb.org/member_login_check.asp?doc=fa_wgq_2011ap7_2012ap8_partA.doc – *Ratified September 28, 2012*

Attachment 1 – Additional Standards:

http://www.naesb.org/member_login_check.asp?doc=fa_wgq_2011ap7_2012ap8_attach1.doc

Attachment 2 – Nomination Standards:

http://www.naesb.org/member_login_check.asp?doc=fa_wgq_2011ap7_2012ap8_attach2.doc

Attachment 3 – Flowing Gas Related Standards:

http://www.naesb.org/member_login_check.asp?doc=fa_wgq_2011ap7_2012ap8_attach3.doc

Attachment 4 – Invoicing Related Standards:

http://www.naesb.org/member_login_check.asp?doc=fa_wgq_2011ap7_2012ap8_attach4.doc

Attachment 5 – Capacity Release Related Standards:

http://www.naesb.org/member_login_check.asp?doc=fa_wgq_2011ap7_2012ap8_attach5.doc

Attachment 6 – Location Data Download:

http://www.naesb.org/member_login_check.asp?doc=fa_wgq_2011ap7_2012ap8_attach6.doc

Final Action – Part B (C12003): Interpretation:

http://www.naesb.org/member_login_check.asp?doc=fa_wgq_2011ap7_2012ap8_partB.doc – *Ratified September 28, 2012*



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NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ) OCTOBER 10, 2012

R11011 – Revised: NAESB WGQ Standard Nos. 5.4.24: Offer – add a code value to the Business Conditional data element “Capacity Type Location Indicator” for capacity that is “Primary thru Storage”, NAESB WGQ Standard Nos. 5.4.20, 5.4.25 and 5.4.26 Transactional Reporting – Capacity Release, Bid and Award – add a date element that is Business Conditional “Capacity Type Location Indicator” as approved by the WGQ Executive Committee on August 23, 2012.

Final Action: http://www.naesb.org/member_login_check.asp?doc=fa_wgq_2011ap7_2012ap8_partB.doc –
Ratified September 28, 2012

R11017: Modify NAESB WGQ Standard No. 4.3.52 as approved by the WGQ Executive Committee on August 23, 2012.

Final Action: http://www.naesb.org/member_login_check.asp?doc=fa_wgq_r11017.doc - *Ratified September 28, 2012*

R11018 – Revised: Delete data ordering standards and create a new data grouping standard as approved by the WGQ Executive Committee on August 23, 2012:

http://www.naesb.org/member_login_check.asp?doc=fa_wgq_r11018.doc - *Ratified September 28, 2012*

R04031 – Amend WGQ Standard No. 4.3.59 to change the timing of the technical review process as approved by the WGQ Executive Committee on August 23, 2012.

Final Action: http://www.naesb.org/member_login_check.asp?doc=fa_wgq_r04031.doc – *Ratified September 28, 2012*

C12004 – Clarification to WGQ Version 2.0, NAESB WGQ Standard No. 2.3.14 (Measurement Data Corrections) as approved by the WGQ Executive Committee on August 23, 2012:

http://www.naesb.org/member_login_check.asp?doc=fa_wgq_c12004.docx - *Ratified September 28, 2012*

2012 WGQ Annual Plan Item 4 – Execute the plan for the development of meaningful error code values in all data sets to make them easier to understand on the TSPs’ EBB web sites as compared to the X12 DISA error codes as approved by the WGQ Executive Committee on August 23, 2012.

Final Action: http://www.naesb.org/member_login_check.asp?doc=fa_wgq_2012ap4.doc - *Ratified September 28, 2012*

2012 WGQ Annual Plan Item 5 – Review minimum technical characteristics in Appendices B, C, and D of the WGQ QEDM Manual, and make changes as appropriate. (Reference NAESB Standard No. 4.3.59) as approved by the WGQ Executive Committee on August 23, 2012.

Final Action: http://www.naesb.org/member_login_check.asp?doc=fa_wgq_2012ap5.doc – *Ratified September 28, 2012*

Attachment 1: http://www.naesb.org/member_login_check.asp?doc=fa_wgq_2012ap5_attach1.doc

Attachment 2 (Redline):

http://www.naesb.org/member_login_check.asp?doc=fa_wgq_2012ap5_attach2_redline.docx

Attachment 2 (Clean): http://www.naesb.org/member_login_check.asp?doc=fa_wgq_2012ap5_attach2_clean.docx



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NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ) OCTOBER 10, 2012

R11021 - Modify language of WGQ Standard No. 5.3.2 such that it meets the original intent and is consistent with Interpretations 7.3.15 and 7.3.46 as approved by the WGQ Executive Committee on August 23, 2012.

Final Action: http://www.naesb.org/member_login_check.asp?doc=fa_wgq_r11021.doc Ratified September 28, 2012

Attachment 1 (Redline and Clean):

http://www.naesb.org/member_login_check.asp?doc=fa_wgq_r11021_attach1.doc

Attachment 2: http://www.naesb.org/member_login_check.asp?doc=fa_wgq_r11021_attach2.doc

Attachment 3: http://www.naesb.org/member_login_check.asp?doc=fa_wgq_r11021_attach3.doc

Recommendations:

2012 WGQ Annual Plan Item 7.b: Develop the NAESB Natural Gas Liquids Master Agreement according to the analysis completed in annual plan item 7.a.

Recommendation: http://www.naesb.org/pdf4/wgq_2012_ap_7b_rec.docx

Attachment - NGL Master Agreement: http://www.naesb.org/pdf4/wgq_2012_ap_7b_rec_attach.docx - comment period ends October 22, 2012

Recommendation Part A: 2011 WGQ Annual Plan Item 7 / 2012 WGQ Annual Plan Item 8:

http://www.naesb.org/member_login_form.asp?doc=wgq_rat100412_wgq_2011ap7_2012ap8_rec_partA_102411.doc This recommendation incorporates standards which were adopted by the WGQ Executive Committee on October 19, 2011 and notational ballot October 24, 2011. These standards were inadvertently not included in the ratified September 28, 2012 recommendation Part A: 2011 WGQ Annual Plan Item 7 / 2012 WGQ Annual Plan Item 8 (C12003) approved by the WGQ Executive Committee on August 23, 2012.

Ratification Ballot:

http://www.naesb.org/member_login_form.asp?doc=wgq_rat100412ballot.doc - ratification period ends November 5, 2012

Minor Corrections:

MC10038 - For NAESB WGQ Version 2.1, additional code values for the data elements Transaction Type and Reduction Reason Code in the following data sets as appropriate: Nomination (1.4.1), Confirmation Response (1.4.4), Scheduled Quantity (1.4.5), Scheduled Quantity for Operators (1.4.6), and Confirmation Response data sets as needed to support these requirements. – approved by the WGQ EC via Notational Ballot on January 18, 2011.

Recommendation: http://www.naesb.org/pdf4/wgq_mc10038_rec_011811.doc (Effective date April 25, 2011)

MC10040 - For NAESB WGQ Version 2.1, NAESB WGQ Standard No. 0.4.2 – Operational Capacity, NAESB WGQ Standard No. 1.4.1 – Nomination, NAESB WGQ Standard No. 1.4.3 – Request for Confirmation, NAESB WGQ Standard No. 1.4.4 – Confirmation Response, NAESB WGQ Standard No. 1.4.5 – Scheduled Quantity, NAESB WGQ Standard No. 1.4.6 – Scheduled Quantity for Operator, NAESB WGQ Standard No. 5.4.20 – Transactional Reporting – Capacity Release, NAESB WGQ Standard No. 5.4.21 – Transactional Reporting – Firm Transportation, NAESB WGQ Standard No. 5.4.24 – Offer, NAESB WGQ Standard No. 5.4.25 – Bid, and NAESB WGQ Standard No. 5.4.26 – Award Download. – approved by the WGQ EC via Notational Ballot on January 18, 2011.

Recommendation: http://www.naesb.org/pdf4/wgq_mc10040_rec_011811.doc (Effective date April 25, 2011)

MC11005 – For NAESB WGQ Version 2.1, This request proposes the addition of 4 code values for the data element “Rate Identification Code” in the following datasets for the NAESB WGQ Version 2.0 release: NAESB WGQ



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NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ) OCTOBER 10, 2012

Standard 5.4.20 – Transactional Reporting – Capacity Release and NAESB WGQ Standard 5.4.21 – Transactional Reporting – Firm Transportation. – approved by the WGQ EC via Notational Ballot on April 8, 2011.

Recommendation: http://www.naesb.org/pdf4/wgq_mc11005_rec_040811.doc (Effective date May 13, 2011)

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

Recommendation: http://www.naesb.org/pdf4/wgq_mc10004_mc10013_rec_042911.doc (Effective date June 16, 2011)

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

Recommendation: http://www.naesb.org/pdf4/wgq_mc11013_mc11014_rec_050511.doc (Effective date June 3, 2011)

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

Recommendation: http://www.naesb.org/pdf4/wgq_mc11013_mc11014_rec_050511.doc (Effective date June 3, 2011)

MC11016 – For NAESB WGQ Version 2.0 and WEQ Version 002.1, Joint WEQ/WGQ Minor Correction to the NAESB WEQ/WGQ Implementation Guide for Electronic Tariff Filing to correspond to modifications made by FERC to its Implementation Guide for Electronic Filing of Parts 25, 154, 284, 300, and 241 Tariff Filings as noted in the FERC eTariff RSS Feed(s), dated April 18, 2011 approved by the WGQ EC on May 5, 2011 and WEQ EC via Notational Ballot on May 20, 2011.

Recommendation: http://www.naesb.org/pdf4/weq_wgq_mc11016.doc (Effective date June 3, 2011)

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

Recommendation: http://www.naesb.org/pdf4/wgq_mc11017_rec_081811.doc (Effective date September 19, 2011)

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

Recommendation: http://www.naesb.org/pdf4/wgq_mc11018_rec_081811.doc (Effective date September 19, 2011)

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

Recommendation: http://www.naesb.org/member_login_form.asp?doc=wgq_rat081911_r11004_mc11001-04_rec.doc – (Ratification for R11004 portion ended September 19, 2011 (Effective date))

MC11019 – For WGQ Version 2.1, Add the code values ‘Swing Service Overtake’ and ‘Unauthorized Take’ for the data element “Transaction Type” in the following data sets: NAESB WGQ Standard No. 2.4.3 – Allocation, NAESB



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NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ) OCTOBER 10, 2012

WGQ Standard No. 2.4.4 – Shipper Imbalance and NAESB WGQ Standard No. 3.4.1 – Transportation/Sales Invoice as approved by the WGQ EC on October 27, 2011.

Recommendation: http://www.naesb.org/pdf4/wgq_mc11019_rec_102711.doc (Effective date December 2, 2011)

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

Recommendation: http://www.naesb.org/pdf4/wgq_mc11020_rec_081811.doc (Effective date September 19, 2011)

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

Recommendation: http://www.naesb.org/pdf4/wgq_mc11021_rec_102711.doc (Effective date December 2, 2011)

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

Recommendation: http://www.naesb.org/pdf4/wgq_mc11022_rec_081811.doc (Effective date September 19, 2011)

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

Recommendation: http://www.naesb.org/pdf4/wgq_mc11023_rec_081811.doc (Effective date September 19, 2011)

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

Minor Correction Request: http://www.naesb.org/pdf4/wgq_mc11024_rec_081811.doc - NO ACTION TO BE TAKEN

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

Minor Correction Request: http://www.naesb.org/pdf4/wgq_mc11007.doc (Processed with R11011)

Request for Comments: http://www.naesb.org/pdf4/wgq_051012reqcom.doc - Ended June 11, 2012

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

Recommendation: http://www.naesb.org/pdf4/wgq_mc11025_rec_081811.doc (Effective date September 19, 2011)



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**NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ)
OCTOBER 10, 2012**



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NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ) OCTOBER 10, 2012

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

Recommendation: http://www.naesb.org/pdf4/wgq_mc11026_rec_102711.doc (Effective date December 2, 2011)

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

Recommendation: http://www.naesb.org/pdf4/wgq_mc11027_rec_102711.doc (Effective date December 2, 2011)

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

Recommendation: http://www.naesb.org/pdf4/wgq_mc11030_rec_102711.doc (Effective date December 2, 2011)

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

Recommendation: http://www.naesb.org/pdf4/wgq_mc11031_rec_112111.doc (Effective date January 5, 2012)

MC11032 – For NAESB WEQ Version 002.1 and WGQ Version 2.0, Joint WEQ/WGQ Minor Correction to the NAESB WEQ/WGQ Implementation Guide for Electronic Tariff Filing to correspond to modifications made by FERC to its Implementation Guide for Electronic Filing of Parts 25, 154, 284, 300, and 341 Tariff Filings as noted by FERC, dated December 22, 2011 as approved by the WEQ and WGQ EC’s via notational ballot on February 3, 2012. *NOTE: This minor correction will not be filed with FERC for Version 2.0, but will be included in the Version 2.1 FERC filing.*

Recommendation: http://www.naesb.org/pdf4/weq_wgq_mc11032_rec_020312.doc (Effective March 6, 2012)

MC12001 – For NAESB Version 2.1, Correct spelling in NAESB WGQ Standard No. 2.4.1 – Pre-determined Allocation as approved by the WGQ Executive Committee on February 23, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12001_rec_022312.doc (Effective March 30, 2012)

MC12002 – For NAESB Version 2.1, Correct information in the NAESB WGQ Standard No. 5.4.26, Award Download in the TIBP for Award Download regarding the Replacement Shipper Role Indicator as approved by the WGQ Executive Committee on February 23, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12002_rec_022312.doc (Effective March 30, 2012)

MC12004 – For NAESB Version 2.1, Correct to NAESB WGQ Versions 1.9 and 2.0 the ASC X12 Mapping Guidelines in Confirmation Response - NAESB WGQ Standard No. 1.4.4 as approved by the WGQ Executive Committee on February 23, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12004_rec_022312.doc (Effective March 30, 2012)

NOTE: This minor correction will not be filed with FERC for Versions 1.9 and 2.0, but will be included in the Version 2.1 FERC filing.



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NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ) OCTOBER 10, 2012

MC12005 – For NAESB Version 2.0, Standard No. 0.3.19 - Modify standard language for 0.3.19 for clarification purposes as approved by the WGQ Executive Committee via notational ballot on March 27, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12005_rec_032712.doc (Effective April 30, 2012)

MC12006 – For NAESB Version 2.0, Standard No. 0.3.21 - Clarify standard language for 0.3.21 for clarification purposes as approved by the WGQ Executive Committee via notational ballot on March 27, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12006_rec_032712.doc (Effective April 30, 2012)

MC12007 – For NAESB Version 2.1, Request is for new Nomination Quick Response Validation Codes - To the Nomination Quick Response document (1.4.2), add new Nominations Quick Response Validation Codes (Sub-detail).

Minor Correction Request: http://www.naesb.org/pdf4/wgq_mc12007.doc

MC12008 – For NAESB Version 2.1, NAESB WGQ Standard No. 5.4.14 (Upload of Request for Download of Posted Datasets) and NAESB WGQ Standard No. 5.4.15 (Response to Upload of Request for Download of Posted Datasets) and for the data element Transportation Service Provider, add footnote references ‘*’ and ‘4’ as approved by the WGQ Executive Committee on May 3, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12008_rec_050312.doc (Effective June 11, 2012)

MC12009 – For NAESB Version 2.1, Add a new code value to the Transaction Type data element and modify the Code Value Definition for Reservation/Enhanced Nomination Service, Code Value 143, in the Transaction Type data element (added with MC11021), to clarify this code applies to Reservation charges as approved by the WGQ Executive Committee on May 3, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12009_rec_050312.doc (Effective June 11, 2012)

MC12011 – For NAESB Version 2.1, NAESB WGQ Standard No. 2.3.14 (Measurement Data Corrections)

Minor Correction Request: http://www.naesb.org/pdf4/wgq_mc12011.doc

Attachment: http://www.naesb.org/pdf4/wgq_mc12011_attach.doc (*Note this minor correction has been transferred to C12004*)

MC12012 – For NAESB Version 2.1, Add five new code values to the Reduction Reason data element for NAESB WGQ Standard Nos. 1.4.5 (Scheduled Quantity) and 1.4.6 (Scheduled Quantity for Operator) as approved by the WGQ Executive Committee on May 3, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12012_rec_050312.doc (Effective June 11, 2012)

MC12013 – For NAESB Version 2.1, Add two new code values to the Adjustment Type data element for NAESB WGQ Standard No. 2.4.4 (Shipper Imbalance) as approved by the WGQ Executive Committee on May 3, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12013_rec_050312.doc (Effective June 11, 2012)

MC12014 – For NAESB Versions 1.9, 2.0 and 2.1, Correct the qualifier in the REF Segments (Heading) Transaction Set table for the data element Package Identifier in the following data sets: Version 1.9, NAESB WGQ Standard No. 5.4.7 (Offer Upload) and 5.4.1 (Offer Download); Versions 2.0 and 2.1, NAESB WGQ Standard No. 5.4.24 (Offer (Download Portion)) as approved by the WGQ Executive Committee on May 3, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12014_rec_050312.doc (Effective June 11, 2012) **NOTE:** *This minor correction will not be filed with FERC for Versions 1.9 and 2.0, but will be included in the Version 2.1 FERC filing.*



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NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ) OCTOBER 10, 2012

MC12015 – For NAESB Versions 1.9, 2.0 and 2.1, Correct the segment level usage and segment level note for the LQ Segment position 0800 in NAESB WGQ Standard Nos. 1.4.5 (Scheduled Quantity) and 1.4.6 (Scheduled Quantity for Operator) as approved by the WGQ Executive Committee on May 3, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12015_rec_050312.doc (Effective June 11, 2012) **NOTE:** *This minor correction will not be filed with FERC for Versions 1.9 and 2.0, but will be included in the Version 2.1 FERC filing.*

MC12016 – For NAESB Version 2.1, Add one code value for the data element “Validation Code (Sub-detail)” in NAESB WGQ Standard No. 1.4.2 (Nomination Quick Response) as approved by the WGQ EC on August 23, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12016_rec_082312.doc - (No further action needed)

MC12017 – For NAESB Version 2.1, Add one code value for the data element “Meter Type” in NAESB WGQ Standard No. 2.4.6 (Measured Volume Audit Statement) as approved by the WGQ EC on August 23, 2012.

Recommendation http://www.naesb.org/pdf4/wgq_mc12017_rec_082312.doc (Effective September 28, 2012)

MC12018 – For NAESB Version 2.1, Add 4 code values for the data element “Charge Type” in NAESB WGQ Standard No. 3.4.1 (Transportation / Sales Invoice) as approved by the WGQ EC on August 23, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12018_rec_082312.doc (Effective September 28, 2012)

MC12019/MC12021 (Revised 06/15/2012) – For NAESB Version 2.1, Add one code value for the data element “Capacity Type Location Indicator” in NAESB WGQ Standard No. 5.4.24 (Offer) as approved by the WGQ EC on August 23, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12019_mc12021_rec_082312.doc (Effective September 28, 2012)

MC12022 – For NAESB Version 2.1, Add one code value for the data element “Transaction Type” NAESB WGQ Standard Nos. 1.4.1 (Nomination), 1.4.5 (Scheduled Quantity) and 3.4.1 (Invoice) as approved by the WGQ EC on August 23, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12022_rec_082312.doc (Effective September 28, 2012)

MC12023 – For NAESB Versions 1.9, 2.0 and 2.1, Correct two code values in the code values dictionary of the Invoicing Related Standards Manual for the data element “Charge Type” in NAESB WGQ Standard No. 3.4.1 (Transportation/Sales Invoice) as approved by the WGQ EC on August 23, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12023_rec_082312.doc (Effective September 28, 2012)

NOTE: *This minor correction will not be filed with FERC for Versions 1.9 and 2.0, but will be included in the Version 2.1 FERC filing.*

MC12024 – For NAESB Versions 2.0 and 2.1, Correct the condition for the data element Location Indicator Data in NAESB WGQ Standard No. 5.4.22 (Transactional Reporting – Interruptible Transportation) as approved by the WGQ EC on August 23, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12024_rec_082312.doc (Effective September 28, 2012)

NOTE: *This minor correction will not be filed with FERC for Version 2.0, but will be included in the Version 2.1 FERC filing.*



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NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ) OCTOBER 10, 2012

MC12027 – For WGQ 2012 Annual Plan Item 6 Final Action Attachment - Government Acquisition Provisions Addendum (GAPA) to the Base Contract for Sale and Purchase of Natural Gas. - Ratified June 11, 2012 to correct legal cites to legal federal regulations as approved by the WGQ EC on August 23, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12027_rec_082312.doc

Attachment: http://www.naesb.org/pdf4/wgq_mc12027_attachment_082312.doc (Effective September 28, 2012)

MC12028 – For NAESB Version 2.1, modify the Data Element Quick Guides to NAESB WGQ Standard Nos. 5.4.24 (Offer), 5.4.25 (Bid) and 5.4.26 (Bid Award) data sets to include new data elements that were inadvertently not added in the original recommendations (R09008 (Data Element “Overrun Responsibility Indicator”) and R05027 (Data Element “Route”)) as approved by the WGQ EC on August 23, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12028_rec_082312.doc (Effective September 28, 2012)

MC12029 – For NAESB Version 2.1, for the Data Element “Cycle Indicator”, minor correction MC10040 added 4 code values TD22-TD25 and modified the code value description for the existing 21 code values TD1 – TD21. It appears that the Code Value Definitions for the existing 21 code values were inadvertently not modified to be consistent with those of the four new ones (or the similar existing code value definitions in the Operating Capacity – NAESB WGQ Standard No. 0.4.2) as approved by the WGQ EC on August 23, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12029_rec_082312.doc (Effective September 28, 2012)

MC12030 – For NAESB Version 2.1, for the Data Element “Location – Initiating Trader”, inadvertently, in the data dictionaries, the new data element ‘Location – Initiating Trader’ was typed in as ‘Location Period – Initiating Trader’ (Ref: R09009 (adopted by the EC 8/18/11, ratified 9/19/11)). The purpose of this minor correction is to correct this typo by deleting the word ‘Period’ from the data element name as approved by the WGQ EC on August 23, 2012.

Recommendation: http://www.naesb.org/pdf4/wgq_mc12030_rec_082312.doc (Effective September 28, 2012)

MC12031 – For NAESB WGQ Version 2.0, NAESB WGQ Standard No. 5.4.16 and Standard No. 4.3.29 - Minor correction request for the WGQ standards to provide consistency in abbreviation for Imbalance Trading between the notice types used by Informational Posting Website and System-Wide Notices.

Request: http://www.naesb.org/pdf4/wgq_mc12031.doc

NOTE: This minor correction will not be filed with FERC for Version 2.0, but will be included in the Version 2.1 FERC filing.

MC12033 – For NAESB Version 2.1, Add 3 code values for the Data Element “Capacity Type Indicator” in the NAESB WGQ Standard No. 1.4.5 (Scheduled Quantity).

Request: http://www.naesb.org/pdf4/wgq_mc12033.docx

MC12037 – For NAESB Version 2.1, Correct Data Element Quick Guide – Creation of Bid in the recommendation R11011 / MC11007 in the following data set: Bid NAESB WGQ Standard No.5.4.25.

Request: http://www.naesb.org/pdf4/wgq_mc12037.doc

MC12038 – For NAESB Version 2.1, Minor Corrections to recommendation R05027 - NAESB WGQ Standard Nos. 2.4.2, 2.4.4 and 3.4.1.

Request: http://www.naesb.org/pdf4/wgq_mc12038.doc



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NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ) OCTOBER 10, 2012

MC12039 – For NAESB Version 2.1, Correct the Transaction Set Tables for Errors and Warnings (Heading), (Detail), and (Sub-detail) in the following data set: Pre-determined Allocation Quick Response NAESB WGQ Standard No. 2.4.2.

Request: http://www.naesb.org/pdf4/wgq_mc12039.doc

TIMELINE:

- Version 2.1 is scheduled for publication in March 31, 2013.
- To back into this date – all standards should be ratified by date of publication, and EC actions should be taken one month prior, to publication, all subcommittee actions should be taken three months prior to publication.

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



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NAESB UPDATE: VERSION 003.1 – WHOLESALE ELECTRIC QUADRANT (WEQ)
OCTOBER 5, 2012

ACTIONS TO BE APPLIED TO WEQ VERSION 003.0 TO CREATE WEQ VERSION 003.1:

Version 003.0 published on July 31, 2012.

2012-2013:

Final Actions:

Recommendations:

2012 Wholesale Electric Annual Plan Item No. 5.a – Add AFC and TFC Values to the “System_Attribute” Data Element as approved by the WEQ Executive Committee on February 21, 2012.

Recommendation:

http://www.naesb.org/member_login_form.asp?doc=weq_rat022412_2012_weq_api_5a_rec.docx – Remanded back to the subcommittee by the WEQ EC on February 21, 2012

Retail 2012 Annual Plan Item 3(b) - (WEQ Consideration for consistency in definitions to terms that are used both in the Retail and Wholesale Electric Quadrants) as approved by the WEQ Executive Committee on August 21, 2012.

Recommendation:

http://www.naesb.org/member_login_form.asp?doc=weq_rat092412_retail_2012_api_3b_weq_rec.docx

Ratification Ballot: http://www.naesb.org/member_login_check.asp?doc=weq_rat092512ballot.doc - ratification period ends October 24, 2012

WEQ 2012 Annual Plan Item 4.c.i-ii / R11014 / R11015 (Part 1) - Develop modifications for WEQ-012 as needed to reflect current market conditions (Authorized Certification Authority Standard and Credentialing Practice (R11014). Technology Review and Upgrade for NAESB Public Key Infrastructure Standard WEQ-012 (R11015)) as approved by the WEQ Executive Committee on August 21, 2012.

Recommendation: http://www.naesb.org/doc_view4.asp?doc=weq_rat090412_weq_2012ap4ci-ii_r11014_r11015_rec.doc

Ratification Ballot: http://www.naesb.org/member_login_check.asp?doc=weq_rat090412ballot.doc - ratification period ends October 4, 2012

WEQ 2012 Annual Plan Item 4.c.i-ii / R11014 / R11015 (Part 2) - Develop modifications for WEQ-012 as needed to reflect current market conditions (Authorized Certification Authority Standard and Credentialing Practice (R11014). Technology Review and Upgrade for NAESB Public Key Infrastructure Standard WEQ-012 (R11015)).

Recommendation (redline): http://www.naesb.org/pdf4/weq_2012_api_4ci-ii_r11014_r11015_part2_rec_redline.doc

Recommendation (clean): http://www.naesb.org/pdf4/weq_2012_api_4ci-ii_r11014_r11015_part2_rec_clean.doc

Request for Formal Comments: http://www.naesb.org/pdf4/weq_071012_reqcom.doc - comment period ended August 10, 2012

WEQ 2012 Annual Plan Item 4.a – PKI Business Practice Standards for OASIS

Recommendation: http://www.naesb.org/pdf4/weq_2012_api4a_rec.doc

Request for Formal Comments: http://www.naesb.org/pdf4/weq_090712_reqcom.doc - comment period ended October 8, 2012



North American Energy Standards Board

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NAESB UPDATE: VERSION 003.1 – WHOLESALE ELECTRIC QUADRANT (WEQ) OCTOBER 5, 2012

WEQ 2012 Annual Plan Item 4.b – PKI Business Practice Standards for e-Tagging

Recommendation (Part 1): http://www.naesb.org/member_login_check.asp?doc=weq_2012_api4b_part1_rec.doc

Recommendation (Part 2): http://www.naesb.org/pdf4/weq_2012_api4b_part2_rec.doc

Attachment - Electronic Tagging Functional Specifications, Version 1.8.1.1:

http://www.naesb.org/member_login_check.asp?doc=weq_2012_api4b_part2_rec_attach.doc

Request for Formal Comments: http://www.naesb.org/pdf4/weq_100512_reqcom.doc - *comment period ended November 5, 2012*

Minor Corrections:

MC12032 – Submitted by JT Wood, Southern Company Services, Inc., minor correction to correct NAESB WEQ Business Practice Standards, Version 003: NAESB Business Practice Standards WEQ-000 Abbreviations, Acronyms, and Definitions of Terms, NAESB Business Practice Standards WEQ-001 Open Access Same-Time Information Systems (OASIS), Version 2.0, and NAESB Business Practice Standards WEQ-003 Open Access Same-Time Information Systems (OASIS) Data Dictionary, Version 2.0.

Recommendation: http://www.naesb.org/pdf4/weq_mc12032.doc

MC12034 – Submitted by E. Skiba, Midwest ISO, minor correction to correct NAESB WEQ Business Practice Standards, Version 003: NAESB Business Practice Standards WEQ-000 Abbreviations, Acronyms, and Definitions of Terms and NAESB Business Practice Standards WEQ-019 Customer Energy Usage Information Communication. Submitted by E. Skiba, Midwest ISO

Recommendation: http://www.naesb.org/pdf4/weq_mc12034.docx

MC12035 – Submitted by E. Skiba, Midwest ISO, minor correction to correct NAESB WEQ Business Practice Standards, Version 003: NAESB Business Practice Standards WEQ-008 Transmission Loading Relief (TLR) – Eastern Interconnection. Recommendation: http://www.naesb.org/pdf4/weq_mc12035.doc

MC12036 - Submitted by JT Wood, Southern Company Services, Inc., minor correction to correct NAESB WEQ Business Practice Standards, Version 003: NAESB Business Practice Standards WEQ-001 Open Access Same-Time Information Systems (OASIS), Version 2.0, NAESB Business Practice Standards WEQ-002 Open Access Same-Time Information Systems (OASIS) and Communication Protocol (S&CP), Version 2.0, NAESB Business Practice Standards WEQ-003 Open Access Same-Time Information Systems (OASIS) Data Dictionary, Version 2.0, and NAESB Business Practice Standards WEQ-013 Open Access Same-Time Information Systems (OASIS) Implementation Guide, Version 2.0.

Recommendation: http://www.naesb.org/pdf4/weq_mc12036.doc

TIMELINE:

- Version 003.1 is scheduled for publication second quarter 2013.
- To back into this date – all standards should be ratified by date of publication, and EC actions should be taken one month prior, to publication, all subcommittee actions should be taken three months prior to publication.

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



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NAESB UPDATE: VERSION 2.1– RETAIL ELECTRIC AND RETAIL GAS QUADRANT (REQ/RGQ) SEPTEMBER 28, 2012

ACTIONS TO BE APPLIED TO RETAIL VERSION 2.0 TO CREATE RETAIL VERSION 2.1:

Version 2.0 was published on April 30, 2012.

2012-2013:

Final Actions:

2012 Retail Annual Plan Item No. 13.a - Book 4 (Dispute Resolution) Update Existing Model Business Practices as approved by the Retail Executive Committees on August 22, 2012.

Final Action: http://www.naesb.org/member_login_check.asp?doc=fa_retail_2012ap13a.doc - *Ratified September 28, 2012*

Attachment 1 - Formal Dispute Process Flow:

http://www.naesb.org/member_login_check.asp?doc=fa_retail_2012ap13a_attach1.ppt

Attachment 2 - Informal Dispute Process Flow:

http://www.naesb.org/member_login_check.asp?doc=fa_retail_2012ap13a_attach2.ppt

2012 Retail Annual Plan Item No. 13.b - Book 12 (Inquiries) Update Existing Model Business Practices as approved by the Retail Executive Committees on August 22, 2012.

Final Action: http://www.naesb.org/member_login_check.asp?doc=fa_retail_2012ap13b.doc - *Ratified September 28, 2012*

Attachment - Process Flow:

http://www.naesb.org/member_login_check.asp?doc=fa_retail_2012ap13b_attach.ppt

2012 Retail Annual Plan Item No. 9.r – Review Book 0 (Overview of Model Business Practices and Master List of defined Terms), Book 1 (Market Participant Interactions), Book 6 (Contracts) and Book 21 (Energy Services Provider Interface) for the inclusion of definitions for all Defined Terms as approved by the Retail Executive Committees on August 22, 2012.

Final Action: http://www.naesb.org/member_login_form.asp?doc=fa_retail_2012ap9r.doc - *Ratified September 28, 2012*

Attachment: http://www.naesb.org/member_login_check.asp?doc=fa_retail_2012ap9r_attach.doc

Retail 2012 Annual Plan 9.b – Review / Update Book 2 - Creditworthiness Model Business Practices (RXQ.2) as approved by the Retail Executive Committees on August 22, 2012.

Final Action: http://www.naesb.org/member_login_check.asp?doc=fa_retail_2012ap9b.doc

Attachment (Process Flows):

http://www.naesb.org/member_login_check.asp?doc=fa_retail_2012ap9b_attach.ppt - *Ratified September 28, 2012*



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NAESB UPDATE: VERSION 2.1– RETAIL ELECTRIC AND RETAIL GAS QUADRANT (REQ/RGQ) SEPTEMBER 28, 2012

Recommendations:

Retail 2012 Annual Plan Item 3.b - Develop business practice standards used to measure and verify reductions in energy and Demand from energy efficiency in wholesale and retail markets. This includes developing business practice standards to measure and verify energy reductions for energy efficiency or a stand-alone Energy Efficiency Portfolio Standard as approved by the REQ EC on August 22, 2012.

Recommendation:

http://www.naesb.org/member_login_form.asp?doc=retail_rat092712_2012_retail_api3b_rec_redline.doc – (Redline)

http://www.naesb.org/member_login_form.asp?doc=retail_rat092712_2012_retail_api3b_rec_clean.doc (Clean)

Ratification Ballot: http://www.naesb.org/member_login_form.asp?doc=req_rat092712ballot.doc – *ratification period ends October 26, 2012*

Retail 2012 Annual Plan Item 10.a / R10002 - Create common interfaces and data structures necessary for enrolling DR sites into a DR program. Enrollment process Model Business Practices development (R10002) as approved by the REQ EC on August 22, 2012.

Recommendation:

http://www.naesb.org/member_login_form.asp?doc=retail_rat092712_2012_retail_api10a_r10002_rec_redline.doc (Redline)

http://www.naesb.org/member_login_form.asp?doc=retail_rat092712_2012_retail_api10a_r10002_rec_clean.doc (Clean)

Attachment 1 - Retail DR Programs - Account Information Change Process Flows:

http://www.naesb.org/member_login_form.asp?doc=retail_rat092712_2012_retail_api10a_r10002_rec_attach1.pptx

Attachment 2 - Retail DR Programs - Drop Process Flows:

http://www.naesb.org/member_login_form.asp?doc=retail_rat092712_2012_retail_api10a_r10002_rec_attach2_redline.pptx

Attachment 3 - Retail DR Programs - Enrollment Process Flows:

http://www.naesb.org/member_login_form.asp?doc=retail_rat092712_2012_retail_api10a_r10002_rec_attach3_redline.pptx (Redline)

http://www.naesb.org/member_login_form.asp?doc=retail_rat092712_2012_retail_api10a_r10002_rec_attach3_clean.pptx (Clean)

Ratification Ballot: http://www.naesb.org/member_login_form.asp?doc=req_rat092712ballot.doc – *ratification period ends October 26, 2012*

Minor Corrections:



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NAESB UPDATE: VERSION 2.1– RETAIL ELECTRIC AND RETAIL GAS QUADRANT (REQ/RGQ) SEPTEMBER 28, 2012

TIMELINE:

- Version 2.1 is scheduled for publication in June 2013.
- 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.

North American Energy Standards Board Membership List
As of September 24, 2012

NAESB Membership Statistics – Changes by Quadrant for 2012 as of September 24, 2012

NAESB Membership Report - Quadrant/Segment Membership Analysis		Number of Members
WGQ Segments	TOTAL	113
	End Users	14
	Distributors	17
	Pipelines	42
	Producers	12
	Services	28
REQ Segments	TOTAL	26
	End Users/Public Agencies	12
	Utilities	6
	Service Providers/Suppliers	8
RGQ Segments	TOTAL	18
	End Users/Public Agencies	1
	Distributors	6
	Service Providers/Suppliers	11
WEQ Segments	TOTAL	131
	End Users	7
	Distributors	19
	Transmission	42
	Generation	23
	Marketers	23
	None Specified	1
	Independent Grid Operators/Planners	9
	Technology /Services	7

North American Energy Standards Board Membership List
As of September 24, 2012

WEQ	<p>New Members: 1- Public Utility District No. 2 of Grant County, Washington (Marketers/Brokers, Muni/Coop); 2- Associated Electric Cooperative, Inc. (Transmission, Muni/Coop); 3- Missouri River Energy Services (Distributors, Muni/Coop); 4- Maine Public Utilities Commission (End Users, Regulator); 5- New Jersey Board of Public Utilities (Generation, Fed/State/Prov.); 6- GMO GlobalSign, Inc. (End User, At Large); 7-Snohomish County PUD No.1 (Distributors, Muni/Coop); 8- White & Case LLP (Technology/Services)</p>	8
	<p>Member Resignations: 1- PPL Electric Utilities Corporation (Transmission, IOU); 2- PHI Power Delivery (Transmission/IOU); 3- Missouri River Energy Service (Distributors, Muni/Coop); 4- Energy Curtailment Specialists, Inc. (End Users, End Use); 5- Utility Integration Solutions, Inc. (Technology/Services); 6- Southern California Edison (Transmission, IOU); 7- Consumers Energy Company (Distributors, IOU); 8- Comprehensive Energy Services (End Users, End Use)</p>	8
WGQ	<p>New Members: 1- Williams Energy Resources, LLC (Services); 2- American Gas Association; 3- National Grid (LDC); 4- New Mexico Gas Company, Inc. (LDC); 5- Vectren Corporation (LDC)</p>	5
	<p>Member Resignations: 1- Cenovus Energy, Inc. (Services); 2- Ameren Corporation (LDC); 3- Caerus Energy (Services); 4- Washington Gas Light Co. (LDC); 5- Marathon Petroleum Company LP (End User); 6- PECO Energy Co. (LDC); 7- Lower Colorado River Authority (End User); 8- Energy Solutions International Inc. (Services); 9- Comprehensive Energy Services (End User)</p>	9
REQ	<p>New Members: 1- New Jersey Board of Public Utilities (End Users/Public Agencies); 2- ISO New England (End Users/Public Agencies)</p>	2
	<p>Member Resignations: Exelon Energy Delivery (Utilities)</p>	1
RGQ	<p>New Members:</p>	0
	<p>Member Resignations:</p>	0
TOTAL	<p>New Members:</p>	15
	<p>Member Resignations:</p>	18

North American Energy Standards Board Membership List
As of September 24, 2012

	Organization	Seg ¹	Contact	Sub-Seg ²
Retail Electric Quadrant Members:				
1	ABB Ventyx	s	Robert Pulcini, Karen Wei	
2	Alabama Power	u	Judy W. Ray	
3	Ameren Services Company	u	Patrick Eynon	
4	Baltimore Gas & Electric Co.	u	Ruth Kiselewich, Phil Precht	
5	City of Houston	e	James P. Cargas	
6	Comverge, Inc.	s	Wendell Miyaji	
7	Dominion Retail	s	William Barkas, Richard Zelenko	
8	Dominion Virginia Power	u	Brandon Stites	
9	Electric Reliability Council of Texas (ERCOT)	s	Susan Munson	
10	Energy Information Standards Alliance	e	Christopher Kotting	
11	Honeywell International, Inc.	e	Steve Gabel	
12	ISO New England	e	Dennis Robinson, Douglas Smith, Eric Winkler	
13	ista	s	Judy Bailey, J. Cade Burks, Jennifer Teel	
14	Maryland Public Service Commission	e	Steven Theroux	
15	National Association of Regulatory Utility Commissioners	e	James Bradford Ramsay	
16	New Jersey Board of Public Utilities	e	Kristi Izzo	
17	Oncor	u	Larry Williford, Debbie McKeever	
18	Pennsylvania Office Of Consumer Advocate	e	Tanya J. McCloskey, Sonny A. Popowsky	
19	Pennsylvania Public Utility Commission	e	Robert F. Wilson, Annunciata E. Marino	
20	PPL Solutions, LLC	s	James M. Minneman, Kim Wall	
21	Public Utilities Commission of Ohio	e	Christopher Kotting	
22	Southern Company Services	s	Chuck Darville	
23	SunGard Consulting Services, LLC	s	Austin Morris	
24	Vermont Public Service Board	e	Pam Stonier	
25	Wisconsin Public Service Corporation	u	Dennis Derricks, Ken Thiry	
26	ZigBee Alliance	e	Tobin Richardson	
Wholesale Gas Quadrant Members:				
1	8760, Inc.	s	Jim Buccigross	
2	Accenture, LLP	s	Jeff Miers	
3	AGL Resources Inc	l	Tim Sherwood	
4	Alliance Pipeline LP	pl	Cathie Legge, Brian Troicuk	

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

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

North American Energy Standards Board Membership List
As of September 24, 2012

	Organization	Seg¹	Contact	Sub-Seg²
5	American Gas Association	l	Andrew K. Soto, Sr., Pete Connor	
6	American Midstream Partners, LP	s	Marty Patterson	
7	ANR Pipeline Company	s	Sandy Meyers, Joseph E. Pollard, Rene Staeb, Debbie Forth, Carol Wehlmann, Radha Raman, Mary Doss	
8	Arizona Public Service Company	e	Tom Carlson, Norman Spooner	
9	Atmos Energy	pl	Steve Easley	
10	Baltimore Gas & Electric Co.	l	Phil Precht	
11	Barclays Bank PLC	s	Guy Kern-Martin, Michelle Hiley	
12	Bentek Energy, LLC	s	Jack Weixel	
13	BG Energy Merchants, LLC	s	Martha Braddy, Susan Bailey, David Buckley, Victoria Versen	
14	Boardwalk Pipeline Partners, LP	pl	Randy Young, Kim Van Pelt	
15	Boeing Co., The	e	Tina Burnett	
16	BP Energy	pr	Mark Stultz, Rhonda Denton	
17	Calpine Energy Services, LP	e	Shonnie Daniel, Jay Dibble	
18	Cargill Incorporated	s	Lester Welch	
19	Carolina Gas Transmission Corporation	pl	Rae Davis, Dana B. Randall	
20	CenterPoint Energy Services, Inc.	s	James G. Beste, Larry Kunkle	
21	CenterPoint Energy Gas Transmission Company	pl	Cindy Suarez, Larry Thomas	
22	CenterPoint Energy Mississippi River Transmission Corporation	pl	Cindy Suarez, Robert Trost	
23	Cheniere Pipeline Company	pl	Whit Scott	
24	Chevron Natural Gas	pr	Charles (Chuck) Cook	
25	Chevron Pipe Line Company	pl	Mary Anne Collins, Deborah Plattsmier, Jeff Kirk	
26	Cimarex Energy Co.	pr	Charlotte Baker	
27	Citigroup Energy Inc.	s	Carrie Southard, Angela Davis	
28	Colorado Springs Utilities	l	Joe M. Holmes	
29	Columbia Gas Transmission	pl	Claire Burum	
30	ConocoPhillips Gas and Power	pr	Catherine R. Abercrombie, Pete Frost	
31	Consolidated Edison Company of NY	l	Scott Butler, Chris Fan	
32	Constellation Energy Commodities Group Inc.	s	Lisa Simpkins, Joseph Kirwan, Andrea Kullman, Jennifer Scott, Stephen C. Knapp	
33	Dauphin Island Gathering Partners	pl	Katie Rice	
34	DB Energy Trading	s	William Donnelly, Travis McCullough	
35	Defense Logistics Agency Energy	e	Veronica Jones, Kevin Ahern	
36	Department of Energy	e	Christopher Freitas	
37	Devon Energy Corporation	pr	Bill Green, Josephina Nguyen, Mike Dionisio	
38	Dominion Resources	l	Craig Colombo	
39	Dominion Transmission, Inc.	pl	Gary Sypolt, Ron Tomlinson	
40	DTE Energy Trading, Inc.	s	Gregory V. Staton, James Buck, Dena Crawford, Marcia L. Hissong, Ann Marie Jambor, Cynthia Klots, Shelley Greene	
41	Eastern Shore Natural Gas Company	pl	Elaine B. Bittner	

North American Energy Standards Board Membership List
As of September 24, 2012

	Organization	Seg¹	Contact	Sub-Seg²
42	El Paso Exploration & Production Company	pr	Stephanie Karm	
43	Enbridge (U.S.) Inc.	pl	Brad Petzold	
44	Encana Marketing (USA) Inc.	s	Keith Sappenfield, Jeff Jarvis	
45	Encana Oil & Gas (USA) Inc.	pr	Keith Sappenfield, Jeff Jarvis	
46	Energy Transfer Partners, L.P.	pl	Josie Castrejana, Miki Kolobara	
47	Entergy Services, Inc.	e	Laura Berryman, Terry Shields	
48	Enterprise Products Partners L.P.	pl	Jeff Molinaro	
49	Equitrans, LP	pl	Paul W. Diehl	
50	ExxonMobil Gas & Power Marketing Company a division of Exxon Mobil Corporation	pr	Randy E. Parker, John W. Poe	
51	Florida Power & Light Company	e	Tim Gerrish, Art Morris	
52	Gas Transmission Northwest Corp.	pl	Joseph Pollard	
53	Golden Pass Pipeline, LLC	pl	Vickie Long	
54	Great Lakes Gas Transmission	pl	Joseph Pollard	
55	Iberdrola USA Management Corporation	l	Mark Marini	
56	Imperial Irrigation District	e	Susie Carrillo	
57	Integrus Energy Group, Inc.	l	David E. Wear	
58	Iroquois Gas Transmission System	pl	Tom Gwilliam	
59	JP Morgan Ventures Energy Corp	S	Paul Tramonte	
60	Kern River Gas Transmission Co	pl	Brenda Horton	
61	Kinder Morgan Western Region Pipelines	pl	William Griffith	
62	Latitude Technologies	s	Leigh Spangler	
63	Louis Dreyfus Energy Services	s	Tara Liscombe, W. Scott Harwood	
64	Macquarie Energy LLC	s	Darlene Volker, Michele McLendon	
65	Marathon Oil Company	pr	Robin Perrine	
66	Mewbourne Oil Company	pr	Michael F. Shepard	
67	National Fuel Gas Supply Corp.	pl	Deborah Kupczyk	
68	Natural Gas Pipeline Co of America	pl	Paul Love, Gene Nowak	
69	National Grid	l	James A. Stanzione	
70	New Mexico Gas Company Inc.	l	Ericka DeCoursey	
71	Nexen Marketing	s	Deb Strang, Sharron Roberts	
72	NextEra Energy Power Marketing, LLC	e	Marty Jo Rogers	
73	NiSource, Inc.	l	Deepak Raval, Michael D. Watson	
74	Noble Americas Corp	pl	Joseph Limone, Marisa Scauzillo, Vanessa R. Mathieu	
75	Noble Energy, Inc.	pr	Richard Smith, Tammy M. Stevens	
76	Northern Border Pipeline Company	pl	Joseph Pollard	
77	Northern Natural Gas	pl	Nancy A. Hetrick	
78	Northwest Natural Gas Company	l	Randolph Friedman	
79	NOVA Gas Transmission Ltd.	pl	Sherry Hill, Bob Jones	
80	OGE Energy Resources, Inc.	s	Cary Metz	
81	ONEOK	l	Larry Dykes	

North American Energy Standards Board Membership List
As of September 24, 2012

	Organization	Seg ¹	Contact	Sub-Seg ²
82	ONEOK Partners GP, LLC	pl	Teri Tingler, Lisa Nishimuta	
83	PAA Natural Gas Storage, LLC	s	Eileen W. Kisluk	
84	Panhandle Eastern Pipe Line	pl	Michael Langston, Larry Biediger	
85	Peoples Gas System (A division of Tampa Electric Co)	l	Wraye Grimard	
86	Portland Natural Gas Transmission System	pl	Sherry Hill, Bob Jones	
87	PPL EnergyPlus, LLC	e	Anne Lovett	
88	QEP Resources, Inc.	pr	Steve Stanton	
89	Questar Pipeline Co.	pl	Jerry H. Gross	
90	Quorum Business Solutions Inc.	s	Cleve Hogarth, Seth Peters	
91	Salt River Project Agricultural Improvement & Power District	e	Lori-Lynn C. Pennock	
92	Sempra Energy - Southern California Gas Co.	l	Lee Stewart, Rodger Schwecke	
93	Sempra U.S. Gas & Power	pl	Bill Rapp, Elizabeth Peters	
94	Sequent Energy Management, L.P.	s	Pat Metteauer	
95	Shell Energy North America (US), L.P.	s	Eric Gillaspie	
96	SNL Financial	s	Katrina Sumey	
97	Southern California Edison Company	e	Roman Bakke, Rob Grimm	
98	Southern Company Services, Inc.	e	Alan Kilpatrick, Travis DeJuan Law	
99	Southern Star Central Gas Pipeline	pl	Philip Rullman, Doug Field	
100	Southwest Gas Corporation	l	Larry Black, Mark Anderson, Mark Litwin, John Olenick	
101	Spectra Energy Transmission	pl	Richard Kruse, Kathryn Burch	
102	SunGard	s	Sylvia Munson	
103	Tennessee Gas Pipeline Company	pl	Mark Gracey	
104	Tennessee Valley Authority	e	Valerie Crockett	
105	Tiger Natural Gas	s	R.F. (Bob) Smith	
106	TransCanada Pipelines	pl	Sherry Hill, Bob Jones	
107	Transwestern Pipeline Company, LLC	pl	Blair V. Lichtenwalter, Mary Draemer, David Mendoza	
108	Vector Pipeline L.P.	pl	Amy Bruhn	
109	Vectren Corporation	l	Elizabeth Beck	
110	WBI Energy Transmission, Inc.	pl	Keith Tiggelaar, Gwen Schoepp, Kelly Brooks, Lori Myerchin	
111	Williams Energy Resources, LLC	s	Tina Still, Cindy Bottomley, Kelly Knopp	
112	Williams Gas Pipeline	pl	Dale Davis, Christopher Burden	
113	WPX Energy Marketing, LLC	s	Rich Ficken	

Wholesale Electric Quadrant Members:

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

North American Energy Standards Board Membership List
As of September 24, 2012

	Organization	Seg¹	Contact	Sub-Seg²
6	American Municipal Power, Inc.	m	Chris Norton, Alice Walker	muni
7	American Public Power Association	d	Allen Mosher	muni
8	Arizona Public Service Company	t	Robert Bean	iou
9	Arkansas Electric Cooperative Corporation	g	Ricky Bittle	muni
10	Associated Electric Cooperative, Inc.	t	Jeff Johns	muni
11	Avista Corporation	t	Jeff Schlect, Kenneth Dillon	iou
12	Basin Electric Power Cooperative	t	Dan Klempel	muni
13	Basin Electric Power Cooperative	m	David Raatz	muni
14	Basin Electric Power Cooperative	g	Jason Doerr	muni
15	BC Hydro	t	Al Woodruff, Brenda Ambrosi	fed
16	Black Hills Corporation	g	Larry D. Williamson, Kenna Hagan	iou
17	Bonneville Power Administration	d	Richard Gillman	other
18	Bonneville Power Administration	g	Francis Halpin, Erika Doot	fed
19	Bonneville Power Administration	m	Brenda Anderson, Ann Shintani	fed
20	Bonneville Power Administration	t	Russ Mantifel, Chris Jones	fed
21	California Department of Water Resources	g	Glenn Solberg, Chi Doan	fed
22	California ISO	i	Brian Jacobsen	
23	Central Electric Power Cooperative	d	Arthur Fusco	muni
24	Cleco Power, LLC	t	Cindy Guillot	iou
25	Consolidated Edison Company of New York, Inc.	t	Scott Butler, Chris Fan	iou
26	Deseret Power Electric Co-op	g	Curt Winterfeld	muni
27	Dominion Energy Marketing, Inc.	g	Lou Oberski	iou
28	Duke Energy Commercial Asset Management, Inc.	g	Kevin Carter	iou
29	Duke Energy Corp.	d	Alan Pritchard	iou
30	Dynergy Marketing and Trade, LLC	g	Contracts – Legal Department	merc
31	Edison Electric Institute	n	David Owens, Dave Dworzak, James P. Fama	n
32	Electric Reliability Council of Texas (ERCOT)	i	Bill Blevins, Paul Wattles, Joel Mickey	
33	Empire District Electric Company, The	t	Bary K. Warren	iou
34	Entergy Services, Inc.	t	Narinder Saini	iou
35	Exelon Generation - Power Team	m	Jack Crowley	iou
36	First Energy Service Company	d	Robert M. Martinko, Thomas C. Burgess	iou
37	Florida Municipal Power Agency	g	Frank Gaffney, Dan O'Hagan	muni
38	Florida Municipal Power Agency	d	Frank Gaffney, Dan O'Hagan	muni
39	Florida Power & Light Company	m	Jim Drake, Tom Hartman	iou
40	Florida Power & Light Company	t	Bob Birch	iou
41	Georgia Transmission Corporation	t	Patrick McGovern	muni
42	GMO GlobalSign, Inc.	e	Lila Kee	at large
43	Hydro – Quebec Transenergie	t	Glenn Sylvain	fed
44	Iberdrola USA Management Corporation	t	Mark Marini	iou
45	Idaho Power Company	t	Kathy Anderson	iou
46	Independent Electricity System Operator (IESO)	i	Scott Berry, Mike Yealland	

North American Energy Standards Board Membership List
As of September 24, 2012

	Organization	Seg¹	Contact	Sub-Seg²
47	Indiana Municipal Power Agency	g	Scott Berry	muni
48	ISO New England, Inc.	i	Matthew F. Goldberg, Douglas Smith, Eric Winkler	
49	LG&E and KU Services Company	t	Derek A. Rahn, Larry Monday	IOU
50	Lincoln Electric System	g	Douglas Bantam	muni
51	Los Angeles Department of Water and Power	t	Mohammed Johar Beshir	muni
52	Los Angeles Department of Water and Power	m	Bradford L. Packer, Joel F. Cordero	muni
53	Maine Public Utilities Commission	e	Denis Bergeron	reg
54	Manitoba Hydro	t	Robin Smyrski	fed
55	Manitoba Hydro	m	Shannon Jones	fed
56	Michigan Public Power Agency	d	James R. Nickel, Peter J. Schimpke	muni
57	MidAmerican Energy Company	m	Dennis Kimm	iou
58	Midwest Independent Transmission System Operator	i	William (Bill) Phillips, Ed Skiba	
59	Midwest Reliability Organization	t	Dan Schoenecker	at large
60	Missouri River Energy Services	d	Thomas J. Heller	muni
61	Nalcor Energy	m	Brad Coady	fed
62	National Association of Regulatory Utility Commissioners	e	Lou Ann Westerfield	reg
63	National Grid	t	Edward M. Kremzier	iou
64	National Institute of Standards and Technology	ts	David A. Wollman	
65	National Rural Electric Cooperative Assoc.	d	Paul McCurley	muni
66	Nebraska Public Power District	t	Don Schmit	muni
67	New Jersey Board of Public Utilities	g	Kristi Izzo	fed
68	New York Independent System Operator (NYISO)	i	Rana Mukerji, Donna Pratt	
69	New York State Reliability Council	d	P. Donald Raymond	at large
70	North American Electric Reliability Corporation	d	David Taylor	at large
71	North Carolina Electric Membership Corporation	d	David Beam, Diane Huis, Richard McCall, James R. Manning	muni
72	Northeast Utilities Service Company	t	David Boguslawski, Calvin A. Bowie	iou
73	Northwestern Corporation	t	Mike Cashell	iou
74	NRG Energy, Inc.	g	Alan Johnson, Jennifer J. Vosburg, Elizabeth Killinger	merc
75	NV Energy	m	Sheryl Torrey	iou
76	NV Energy, Inc.	t	Patricia Englin	iou
77	Open Access Technology International, Inc.	e	Michehl Gent	at large
78	Open Access Technology International, Inc.	t	Paul R. Sorenson	at large
79	Organization for the Advancement of Structured Information Standards (OASIS)	ts	Laurent M. Liscia	
80	PacifiCorp	m	John Apperson	iou
81	PacifiCorp	t	Sarah E. Edmonds	iou
82	PJM Interconnection	i	Frank Koza, Cathy Wesley	
83	Portland General Electric	t	Frank Afranji, John Walker. Johnny Useldinger	iou
84	Power Costs, Inc. (PCI)	ts	TJ Ferreira	
85	Powerex Corp	m	Michael L McWilliams, Sharole Tylor	fed

North American Energy Standards Board Membership List
As of September 24, 2012

	Organization	Seg¹	Contact	Sub-Seg²
86	PowerSouth Energy Cooperative	d	William Ronald Graham	muni
87	Progress Energy	m	John Sturgeon	iou
88	Progress Energy	t	Jack Armstrong, Michael Anthony, Lee Schuster	iou
89	Public Service Company of New Mexico	m	Steven Maestas, Darren Wilkins, Patricia Merville, Roger Vaughn	iou
90	Public Utilities Commission of Ohio	e	Christopher Kotting	reg
91	Public Utility District No. 2 of Grant County, Washington	m	Casey Sprouse	muni
92	Puget Sound Energy, Inc.	t	George Marshall, Bob Harshbarger	iou
93	Sacramento Municipal Utility District	d	Steve Sorey	muni
94	Salt River Project Agricultural Improvement and Power District	t	Luke O'Dwyer, Michael J. Pfeister	fed
95	Salt River Project Agricultural improvement and Power District	m	Richard Lehman	fed
96	San Diego Gas & Electric Company	t	Patricia vanMidde	iou
97	Santee Cooper	t	Tom Abrams	fed
98	Seattle City Light	d	Cathy Leone-Woods	muni
99	Seminole Electric Cooperative, Inc.	m	Steve Wallace	muni
100	Shell Energy America (US), L.P.	m	Robert Reilley, Paul Kerr	niou
101	Shift Systems	e	Jesse D. Hurley	at large
102	Snohomish County PUD No. 1	d	Kim Haugen	muni
103	South Carolina Electric & Gas Company	t	S. Porcher Stoney, James T. Starling, Jr. , Sonya Green-Sumpter, Matt Bullard, Kevin Spitzform	iou
104	Southern Company Services, Inc.	g	John Ciza	iou
105	Southern Company Services, Inc.	m	Joel Dison	iou
106	Southern Company Services, Inc.	t	Joshua Jenkins, Terry Coggins, JT Wood, James Y. Busbin, Corey Sellers, Antonio Grayson	iou
107	Southwest Power Pool	i	Carl Monroe, Michael Desselle, Charles Yeung	
108	Southwest Transmission Cooperative, Inc.	t	Shane Sanders, James Burson	muni
109	Southwestern Power Administration	t	Tracey Stewart	fed
110	Stryve Advisors, LLC	ts	Rachel Bryan	
111	SunGard	ts	Andrew Tritch, Rick Lentz	
112	Tenaska, Inc.	g	Scott Helyer, William Simpson	merc
113	Tennessee Valley Authority	g	Kathy York	fed
114	Tennessee Valley Authority	m	Luis A. (Tony) Suarez, Valerie Crockett	fed
115	Tennessee Valley Authority	t	Chuck Feagans	fed
116	Tri-State Generation and Transmission Association, Inc.	t	Carla Javornik, Doug Reese	muni
117	Tri-State G&T Association, Inc.	g	Janelle Marriott	muni
118	Tucson Electric Power Company	t	Raquel Aguilar, Judy Fregoso, Ed Beck, Amy Welander	iou
119	United Illuminating Company, The	t	Jim Clemente, Laurie Lombardi	iou
120	Vermont Public Power Supply Authority	g	William J. Gallagher	muni
121	Vermont Public Service Board	e	Pam Stonier	reg

North American Energy Standards Board Membership List
As of September 24, 2012

	Organization	Seg ¹	Contact	Sub-Seg ²
122	We Energies (Wisconsin Electric)	d	Linda Horn	iou
123	We Energies (Wisconsin Electric)	g	James R. Keller	iou
124	Westar Energy, Inc.	g	Grant Wilkerson	iou
125	Western Area Power Administration	t	JB Hite	fed
126	Western Area Power Administration	m	Jeffrey Ackerman	fed
127	Western Electricity Coordinating Council	t	Michelle Mizumori, Craig L. Williams	at large
128	White & Case LLP	ts	Richard Cousins	
129	Wisconsin Public Service Corporation	g	Christopher Plante, Charles W. Severance, Neal Balu	iou
130	WPPI Energy	d	Todd Komplin	muni
131	Xcel Energy Inc.	m	David Lemmons	iou

Retail Gas Quadrant Members:

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



North American Energy Standards Board

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via posting

TO: NAESB Board Revenue Committee Members and posting for interested industry parties
FROM: Jonathan Booe, Deputy Director, NAESB
RE: Meeting Notes from the NAESB Board Revenue Committee Conference Call on September 14, 2012
DATE: September 14, 2012

Dear Revenue Committee Members,

A Revenue Committee conference call was held on September 14, 2012. The meeting was called to order at 10:00 am Central. Mr. Desselle presided over the meeting. The notes and attachments below serve as a record for the meeting.

Notes from the September 14, 2012 NAESB Board Revenue Committee Conference Call

Administrative: Mr. Desselle welcomed the participants in the room and on the phone and called the roll of the Committee. Quorum was established. Mr. Desselle provided the antitrust guidance and reviewed the [agenda](#) with the participants. The agenda was adopted by consensus. Ms. Crockett moved to adopt the meeting notes from the August 9, 2012 conference call. Mr. Smead seconded the motion and the motion passed without opposition.

Discussion Mr. McQuade reviewed the status of the recommendations made by the Revenue Committee since the May 16, 2012 meeting and the action items to be completed. A complete list of these items can be found in the agenda. Mr. Desselle confirmed that the initiation of the non-member meeting attendance fee is contingent upon the implementation of the non-member website. Ms. McQuade noted that the cost of the modifications to the website has increased from \$6,000 to \$7,000, as the additional feature requested by the Board of Directors (the optionality of a subcommittee specific participation fee) will require additional coding.

Ms. McQuade reviewed the membership profile with the participants and noted that research she and Ms. Rager have conducted shows a large lag between resigning members and replacement members that is resulting in a revenue reduction. Mr. Smead asked if the lag is due to prospective members waiting on Board seats to become open. Ms. McQuade stated that many of the resignations are a result of the number of mergers that have occurred in the industry in the last year and shifts in activities within the organization.

There may be some confusion that a company's interest can be represented by a group, and that company would have full access to the intellectual property of NAESB through the group's support. The participants recommended correspondence to the legal counsels of these groups to reacquaint them with the copyright and intellectual property rights policy of NAESB.

Ms. McQuade noted that the decreased revenue from membership losses has been largely negated by the reduction in expenses during the first half of the year. The participants recommended that the information be provided to the Board and that Ms. McQuade also note that the reduction in expenses has occurred during an increase in the number of meetings and conference calls hosted by NAESB.

Mr. Desselle stated that the Managing Committee discussed the necessity for a slight increase in the membership fee in an effort to avoid a substantive increase in the future. Mr. Boswell stated that the membership fee has only been increased one time in the organization's history and that a number of organizations modify their membership fees on an annual basis. He stated that a modest increase in the membership dues implemented incrementally would likely be preferred by members rather than a large fee increase in several years. The participants supported his recommendation. Ms. Crockett



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Notes from the September 14, 2012 NAESB Board Revenue Committee Conference Call

made a motion to increase membership fees from \$6,500 to \$7,000 per membership over a two year period with an incremental \$250 increase in the first year and another in the second. Mr. Smead seconded the motion and the motion passed without objection. Mr. Smead stated that membership fee increase is appropriate and that the committee will continue to consider other sources of revenue to ensure the longevity of the organization.

Mr. Booe stated that the Public Key Infrastructure (PKI) standard and specification adopted by the WEQ Executive Committee in August will require NAESB to register object identifier(s) with the American National Standards Institute. He stated that there is a one-time fee associated with the registration of the object identifier and that the Revenue Committee may want to consider a way to recoup the cost. Ms. McQuade stated that there is currently a fee to be a certificate authority for the WGQ of \$1,000 for member companies and \$5,000 for non-member companies on a biannual basis. The participants agreed that a similar for certificate authorities in the WEQ would be appropriate. Through discussion the participants agreed that an annual fee of \$1,000 for members and \$8,000 for non-members would be acceptable and would encourage membership. Mr. Gent moved to adopt the fee structure discussed by the group for the WEQ and Mr. Smead seconded the motion. The motion passed without opposition. Mr. Smead moved to increase the non-member fee for certificate authorities in the WGQ from \$5,000 to \$8,000 on a continued biannual basis. Ms. Crockett seconded the motion and the motion passed without opposition.

Next, the participants discussed the upcoming Board meeting and recommended that a presentation be prepared to provide background for the decisions reached by the committee. The Managing Committee will be contacted to determine its level of support for the actions.

Other Business/Next Meeting and Action Items:

No other business was discussed and no follow up meeting was scheduled. The following action items were assigned.

- Ms. McQuade would contact the Managing Committee to determine their concurrence with the Revenue Committee's decisions.
- A short presentation will be developed describing the decisions reached by the committee and the context within which the decisions were made.
- Ms. McQuade will develop a letter to be reviewed by Mr. Boswell and distributed to the General Counsels of the trade associations concerning the NAESB copyright policy.

Adjourn: The meeting was adjourned at 11:00 am Central.

Work Papers Provided for the Meeting:

Meeting Related Documents:

- Announcement and Agenda: http://www.naesb.org/pdf4/bd_revenue091412a.docx
(The work papers are contained as links in the agenda).



North American Energy Standards Board

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Notes from the September 14, 2012 NAESB Board Revenue Committee Conference Call

REVENUE COMMITTEE MEMBERS

Name	Organization
Bill Boswell	NAESB
Valerie Crockett	Tennessee Valley Authority
Michael Desselle	Southwest Power Pool
Mike Gent	OATI
Debbie McKeever	Oncor
Rick Smead	Navigant Consulting, Inc.

OTHER ATTENDEES

Name	Organization
Jonathan Booe	NAESB
Dave Francis	Midwest ISO
Rae McQuade	NAESB
Denise Rager	NAESB
Veronica Thomason	NAESB

North American Energy Standards Board

Revenue Committee Efforts

- ❖ Delineation of Membership Benefits
- ❖ Access to Materials for Members
 - ❖ All information available to members from the web site, which requires use of individual NAESB user id and pass code for materials
- ❖ Access to Materials for Non-members
 - ❖ 30 days most current information available to non-members, no individual NAESB user id and pass code required
 - ❖ If non-members access information that is more than 30 days old, a message will appear that they should contact the NAESB office

North American Energy Standards Board

Revenue Committee Efforts

- ❖ Delineation of Membership Benefits
- ❖ Access to Meetings
 - ❖ All members have access to all meetings at no charge
 - ❖ Non-members will be charged to attend all EC related committee, subcommittee, task force meetings
 - ❖ The charge will be \$100 for meetings scheduled for 4 hours or less, and \$300 for more than 4 hours,
or
 - ❖ A \$1000 fee for a subcommittee access for one year for an individual

North American Energy Standards Board

Revenue Committee Efforts

- ❖ Delineation of Membership Benefits
- ❖ Access to Distribution Lists & Notifications
 - ❖ Only members can be placed on meeting notification distribution lists for subcommittees and exploders for subcommittee online discussions
 - ❖ Ease of participation and monitoring of activities and development including reminders is provided to members based on inclusion in distribution lists and notification lists
 - ❖ Exploders are used by members to communicate with each other regarding development activities.

North American Energy Standards Board

Revenue Committee Efforts

- ❖ Delineation of Membership Benefits
- ❖ Costs of Work Products to non-members
 - ❖ Cost of a version of standards remains at \$900 for non-members.
 - ❖ All contracts have increased from \$50 to \$250 for non-members. Addendums remain at \$50 for non-members.
 - ❖ Individual sets of standards has increased from \$100 to \$250 for non-members.
 - ❖ Certification for non-members has increased from \$5000 to \$8000 assessed biannually for the WGO work products, (member fee is \$1000).
 - ❖ Certification for Authorized Certification Authorities (WEO PKI Standards) has been set at \$8000 for non-members on an annual basis(member fee is \$1000).

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Revenue Committee Efforts

- ❖ Delineation of Membership Benefits – Status of Actions
- ❖ Managing Committee Approval via email and Review by Board at the June 2012 Meeting
 - ❖ For all actions except the subcommittee annual fee option
 - ❖ Programming of the web site is nearing completion and testing should begin by the office later this month
- ❖ Managing Committee Approval via email and presentation for consideration of approval by Board at the Sept 2012 Meeting
 - ❖ Subcommittee annual fee option – which was discussed and proposed for inclusion at the June 2012 Board meeting

North American Energy Standards Board

Revenue Committee Efforts

- ❖ Delineation of Membership Benefits – Status of Actions
 - ❖ Timing
 - ❖ Home Page Access Fee for non-members – option no longer available (10 accesses are outstanding through 2013)
 - ❖ If testing is successful, the web site changes will be implemented in late October after notification is provided later this month
 - ❖ Once the web site changes for access to materials are implemented the fees for non-member attendance at meetings will be implemented

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Revenue Committee Efforts

- ❖ Membership Profiles
- ❖ Dues and related membership fees
 - ❖ \$6500 for members annually – all employees of the member company are considered members. This does not apply to affiliates, partners or others not included as direct employees of the member company
 - ❖ \$150 for affiliates of members to have access to a copy of standards (not access to the web site – access is specific to a copy of a version of a given quadrant’s standards)
 - ❖ \$500 for regulatory agencies and consumer advocates to join
 - ❖ Dues last increased from \$5000 to \$6500 – determined in September 2008 and applied for memberships beginning January 2009

North American Energy Standards Board

Revenue Committee Efforts

- ❖ **Membership Profiles – Member Resignations**
 - ❖ Lags in replacements exceed 6 months – so that replacement memberships are a minimum of \$3000 per member – and can contribute to a net loss of more than \$100K per year in revenue
 - ❖ Members have resigned so that their interests can be represented by trade associations – this does not allow for the resigned members to have access to copyrighted materials or the intellectual property of NAESB
 - ❖ Members have resigned so that their interests can be represented by their corporate membership – this does not allow for the resigned affiliate members to have access to copyrighted materials or the intellectual property of NAESB
 - ❖ Members have resigned as it is more financially advantageous for them to follow NAESB as non-members

North American Energy Standards Board

Revenue Committee Efforts

- ❖ Revenue Committee Actions:
 - ❖ Better delineate member versus non-member benefits, which should:
 - ❖ Nominally increase revenues based on non-member fees collected
 - ❖ Encourage membership as non-members determine the need to participate
 - ❖ Maintain existing membership

North American Energy Standards Board

Revenue Committee Efforts

- ❖ Revenue Committee Actions -- Dues:
 - ❖ Last increase in January 2009 - \$1500 per member (30% increase) to increase dues from \$5000 to \$6500.
 - ❖ In light of realized revenue decreases, expenses have been decreased – in comparison to July 2011, the expenses are 7% lower (\$79K) and are 7% lower (\$68K) than the 2012 budget YTD. In comparison of estimated 2012 YE to 2011 YE actuals, the expenses are \$109K less.
 - ❖ These 2012 expense decreases have been accompanied by an increase in the number of meetings – a measure of the activity of the organization – of 21% in comparing YTD August activity to YTD August activity of 2011.
 - ❖ Consider nominal dues increases of \$250 per year for 2013 (3.8%) and 2014 (3.7%) to address negative retained earnings along with increased activities of the organization.



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TO: NAESB Files
FROM: Rae McQuade, NAESB President and COO
RE: Notes from the August 24, 2012 Managing Committee Meeting
DATE: August 30, 2012

The NAESB Managing Committee met via conference call and in person in Colorado Springs on August 24, 2012 to review mid-year compensation changes. The meeting was convened at 9:00 am MT by Mr. Desselle. All members were in attendance with the exception of Mr. Cleveland. Mr. Boswell provided the antitrust guidance. Mr. Desselle reviewed the agenda items – to review and approve mid-year compensation changes, to discuss staffing, to review NAESB leadership and attendance, to identify agenda items for the upcoming board meeting, and to add items regarding PKI standards publications for the WEQ, the format of the Board meetings, and the release of the Gas Electric Harmonization Report. The adoption of the agenda was moved by Mr. Ellsworth and seconded by Ms. Crockett. There was no opposition.

The salary changes were discussed for staff and approved through a single motion made by Ms. Crockett and seconded by Mr. Ellsworth. Compensation issues were discussed with supporting documentation including financial analysis and ASAE salary charts for similar positions. There were no votes in opposition. *[After the meeting, Mr. Cleveland was contacted and provided approval for the actions taken by the Managing Committee regarding compensation.]* There was a review of the leadership roster and attendance records. It was determined that the NAESB office would send correspondence to the Board and EC members who have had difficulty attending three or more meetings over the twelve month period ending in June 2012 to determine if they intend to continue participating in NAESB. It is hoped that the absent members would be able to continue with NAESB.

There was a review of the Board agenda for September and the strategic session. The expectation is that the strategic session discussion will focus on the Gas-Electric Harmonization Report. The Board meetings for September and December 2012 will be held at the Four Seasons Hotel in downtown Houston. The Managing Committee discussed and determined the items for the September Board meeting, based on a review of the last meeting's agenda and minutes and the agenda for last September. During the September Board meeting, the extension of time for the waiver for the retail quadrants will be discussed – including quadrant membership thresholds (at least 40 members per quadrant), segment membership thresholds (at least five members per segment) and number of segments per quadrant (at least 4 segments per quadrant) for possible decisions in December or in 2013. Also during the September Board meeting a discussion on revenues will take place, and another Revenue Committee conference call will be scheduled prior to the Board meeting.

The Managing Committee discussed the need for three versus four Board meetings in 2013 and determined to raise the issue with the Board at the upcoming meeting. If it is determined that three meetings would suffice, the first meeting would focus on a review of the prior year's yearend review and the enactment of the plans for the current year, the second meeting would be focused on strategic considerations and the meeting of the members, and the third meeting of the year would focus on approval of the upcoming year's budget and plans. Dates for the meetings would probably be early April, early September and early December. If needed, conference calls and web casts could augment the three standing meetings.

For Board meeting formats, the Managing Committee determined that the current format would continue – focusing of specific development efforts, Board Committee activities, management of the organization, high level reviews of EC efforts, and guest speakers with relevant strategic subjects for NAESB. During the discussion, it was noted that the leadership meetings provide opportunities for more detailed discussion by quadrant for Executive Committee issues. This topic will be raised during the September Board meeting.

During the WEQ EC meeting, it was noted that it may be advisable to provide the FERC with the PKI standards as soon as they are ratified, rather than waiting until a full publication is forwarded to the FERC. The delay to a full publication could be considerable as the current publication, dated July 31, 2012, is currently the subject of a report to the FERC for WEQ Version 003. The next WEQ release will be at least 11 months out. The Managing Committee agreed that this was the appropriate action and the NAESB office will touch base with FERC senior level staff to determine if a separate filing of the PKI standards would be appropriate. No other business was raised. The meeting adjourned at 11:45 am MT.



North American Energy Standards Board

Gas-Electric Harmonization Committee Report

September 2012



Wholesale Electric



Retail Electric



Wholesale Gas



Retail Gas

NORTH AMERICAN ENERGY STANDARDS BOARD

Rae McQuade, *President and COO*
Michael Desselle, *CEO and Chairman of the Board of Directors*
William P. Boswell, *General Counsel*
Jonathan Booe, *Deputy Director*

NAESB Gas-Electric Harmonization Committee

Ms. Valerie Crockett, *Co-chair*
Dr. Sue Tierney, *Co-chair*

The drafters of the report, the members of the NAESB Gas-Electric Harmonization Committee, comprise a broad cross section of natural gas and electric markets – state and federal regulators, pipelines, generators, producers, distribution, marketing, transmission, end users, independent system operators and technology experts.

The committee was fortunate to have several of the key architects of the National Petroleum Council (NPC) report as members. NAESB has reached out to other groups that are also addressing harmonization issues, such as the North American Electric Reliability Corporation, to ensure that the activities are coordinated. All NAESB meetings, including those of this committee, are open to any interested party.

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North American Energy Standards Board

Gas-Electric Harmonization Committee Report

September 2012

Report Components:

<i>1. Background.....</i>	<i>1</i>
<i>2. Committee Efforts and Recommendations</i>	<i>2</i>
<i>3. Committee Cautions.....</i>	<i>4</i>
<i>4. Standards Development Considerations.....</i>	<i>5</i>
<i>5. Policy Considerations.....</i>	<i>8</i>
<i>6. Commercial Practices Considerations</i>	<i>11</i>

Appendices:

<i>A. Survey Results</i>	<i>14</i>
<i>B. List of Committee Members.....</i>	<i>36</i>
<i>C. Committee Meeting Dates.....</i>	<i>37</i>
<i>D. List of Reference Documents</i>	<i>38</i>

BACKGROUND:

In September 2011, the National Petroleum Council (NPC)¹ issued the “Prudent Development – Realizing the Potential of North America’s Abundant Natural Gas and Oil Resources” study.² The NPC study was in response to letters dated September 16, 2009 and April 30, 2010 from the U. S. Department of Energy Secretary Steven Chu. The NPC conducted a comprehensive study to reassess the character and potential of the North American natural gas and oil resources and the contribution that natural gas can make to a transition to lower carbon energy footprint. The report cited five core strategies for government and industry, including the functioning of energy markets and specifically recommended actions that could be taken by NERC, NAESB, FERC, NARUC and Independent System Operators to continue efforts to harmonize the interaction between the natural gas and electric markets.

The NPC recommended actions were brought to the attention of NAESB’s Board of Directors at both the September and December 2011 quarterly meetings. The NPC recommendations included:

- **Developing policies, regulations, and standardized business practices that improve the coordinated operations of the two industries and reduce barriers that hamper the operation of a well-functioning market**
- **Increasing the transparency of wholesale electric power and natural gas markets**
- **Addressing the issue of what natural gas services generators should hold, including firm transport and storage, and what services pipeline and storage operators should provide to meet the requirements of electricity generators as well as compensation for such services for pipeline and storage operators and generators**

In January 2012, the NAESB Board announced the formation of a Board-level Gas-Electric Harmonization (GEH) Committee. As with all NAESB meetings and consistent with the NPC request that the named groups work together with the "robust participation from market participants", all GEH Committee meetings have been posted on the NAESB website and been open to any interested party, with attendance in person or by telephone/webcast. Also, all materials and documents have been made available for public review. The work of the GEH Committee has been informed by this broad transparency, which has allowed interested parties to weigh in in multiple ways with Committee members.

¹ The National Petroleum Council endorsed the report in September 2011. The list for the members of the National Petroleum Council can be found at the following link: <http://www.npc.org/members/bycom.html>.

² The executive summary of the report can be accessed from the following link: <http://www.npc.org/NARD-ExecSummVol.pdf>.

COMMITTEE EFFORTS & RECOMMENDATIONS:

The GEH Committee (“Committee”) team has held seventeen meetings and conference calls from January to August 2012³ in an effort to identify the issues that affect the coordinated operations of the two industries. The Committee is comprised of members from both the electric and gas industries and government organizations. The Committee’s goal is to identify the policy, commercial, and standardized business practices issues that may require action by one or more entities (and not necessarily by NAESB). These potential actions include revised or new policies, commercial solutions, or standardized business practices to improve better-coordinated operations and reduce barriers that hamper the operation of a well-functioning power market and a well-performing gas market.

The Committee’s work involved soliciting insights and observations from members and others with respect to those topics. Because so much rich information came forward through this process, the Committee recorded and compiled these observations into written documents. These compilations are included later in this report and in its appendices. Specifically, the subsequent sections of this report entitled “Standards Development Considerations,” “Policy Considerations,” and “Commercial Practice Considerations” are the compilations that capture the insights made by individual participants in the Committee’s process.

Importantly, we’ve included them in this report for transparency purposes, but not because they reflect a consensus view of the Committee. The individual observations that resulted from those discussions, however, are just that: observations by the respective Committee members, and not to be considered as positions endorsed by the Committee as a whole.

Nonetheless, compiling and categorizing the observations served as the foundation for discussions and for determining what, if any, recommendations this Committee would make to the Board regarding the Committee’s work related to the following questions:

1. Under what circumstances should NAESB consider new standards development or modifications of existing standards (see discussion below under “Standards Development Considerations”);
2. What policy decisions should precede any action by NAESB (see discussion below under “Policy Considerations”), and
3. Whether NAESB should refrain from standards development because commercial services may be the most appropriate course of action, (see discussion below under “Commercial Practice Considerations”).

As the Committee worked to condense and categorize the observations, it noted a number of realities: First, the Committee recognized that federal and state policy issues are outside NAESB’s purview, and thus the Committee’s work attempted to distinguish between issues that are policy-related and things that are not (e.g., issues that are amenable to resolution by commercial parties; issues that could benefit from standardized business practices).

³ The GEH Committee meetings and materials can be accessed from the NAESB web site at the following hyperlink: http://www.naesb.org/board_gas_electric_harmonization.asp.

Second, there are many instances, however, in which policy issues, commercial issues and standards development overlap. For example, many policy and commercial actions taken by regulators and market participants, respectively, could affect the standards NAESB may seek to develop in the area of GEH. These interactive effects complicate sequencing and content of any actions that NAESB might seek to take in the future.

Finally, the Committee observed that some commercial solutions by their nature evolve to meet market needs of specific market participants or regions and are unlikely to be extended to other regions or to all pipelines. Although these specific commercial solutions may address some of the underlying GEH issues, they may not lend themselves to uniform market applicability and the adoption of national standards.

With these parameters in mind, the Committee identified three areas where existing standards could be revisited to determine whether modifications could improve GEH with respect to those discrete issues, and if so, what those modifications might address.

1. **Market timelines and coordination of scheduling:** Unsynchronized market clearing times, gas and electric delivery days, the difference between nomination timelines and trading timelines, and gas supply timelines for natural gas and electricity sometimes create challenges that may possibly require changes to market timelines. At a minimum, standards supporting schedule coordination and additional communications between the two markets may be needed.
2. **Flexibility in Scheduling:** Greater flexibility in scheduling gas transportation services balanced against existing contracted services and operational integrity of the markets may lead to standards development or revisions of existing standards and may need to be considered by the NAESB organization.
3. **Provision of Information:** Standard development could be considered to further promote the availability of information to specific entities in order to assist in addressing GEH issues related to
 - a. the status of generation and pipeline capacity,
 - b. access to critical infrastructure information needed by electric service providers in curtailment conditions, including information on gas-fired generators, and
 - c. decision-enabling tools related to contingency response and day-of-service operations.

The means by which communication would take place for situational awareness reporting, recognizing confidentiality constraints are key components for consideration.

COMMITTEE CAUTIONS:

Although this Committee has identified discrete areas where standards could be considered, the Committee recognizes that the ability of NAESB to reach consensus on certain standards may not be possible absent further policy guidance by regulators or other appropriate public bodies.

Accordingly, prior to adding these items to the 2013 Annual Plans as active items, the Committee recommends the Board evaluate the likelihood of success prior to committing the time and resources of NAESB staff and other stakeholders to these issues.

The Committee notes, further, that even when new policy or clarifications of existing policy are provided to address GEH issues, such clarifications or new policy, when received, may or may not lead to outcomes amenable to near-term standards development or adoption (or at all).

STANDARDS DEVELOPMENT CONSIDERATIONS:

CONTEXT WITHIN WHICH THE COMMITTEE CONSIDERED POTENTIAL STANDARDS DEVELOPMENT:

- Individual observations stand by themselves and are not considered positions endorsed by the Committee as no votes are to be taken. They were provided from the documents listed as sources for the Committee and from the discussions held in the Committee meetings.
- The Committee did not expect that all GEH issues could be resolved with standards.
 - Should additional capacity be needed, standards will not determine whether to build that capacity. Standards do not address the creation of capacity. Standards cannot solve infrastructure requirements when policy and or commercial decisions must be made first.
 - If regional arrangements did not lend themselves to the broader uniformity provided when creating standards with regional differentiation, standards would not be appropriate.
 - When policy clarifications are needed or new policy would be helpful in addressing GEH issues, the clarifications or new policy may or may not lead to standards development.
- Observations identified as either primarily or secondarily related to standards development were done so because the Committee found no fundamental reasons why the industry should not consider developing standards to assist the market in addressing GEH issues.
- Where the Committee has found fundamental reasons why standards should not be developed, they will be so stated.
- Standards developed to harmonize the two markets could impact not only power generation but all natural gas end use customers, and the terms of existing contracts that govern the services provided to the end use customers should not be adversely impacted.
- If there is an expectation of impediments to reaching consensus on the development of a standard, such as a general reluctance to change or change that shifts costs from one segment to another, then policy direction would be required. The Committee recommends that the Board carefully consider any standards development efforts in conjunction with an expectation that consensus can be reached. Without such an expectation of consensus, it may be more appropriate to consider the development as provisional until such time as the Board does expect that consensus is achievable.
- As observations are listed for each of the consolidated recommendations, it can be seen that there is an overlap across policy issues, commercial issues and standards development recommendations. These overlaps are to be expected as the observations are multi-faceted, in which there may be standards development recommended for part of an observation at the same time that there are considerations for policy direction or regional commercial practices for other parts of an observation.

COMMITTEE RECOMMENDATIONS THAT COULD LEAD TO STANDARDS DEVELOPMENT:

1. Greater flexibility in scheduling gas transportation services balanced against existing contracted services and operational integrity of the markets may lead to standards development or revisions of existing standards and may be considered by the NAESB organization.
 - This recommendation incorporates observations noted for: 1.1, 1.2, 1.3, 1.4, 1.6, 1.7, 1.8, 1.10, 1.11, and 2.15.
 - The recommendation is linked to similar NAESB standards that have been defined for intraday scheduling, scheduling and confirmations, and bumping rules. Those standards may require changes if standards development for this item is undertaken.
 - Fundamental reasons why standards development in this area should be undertaken:
 - This recommendation is linked to Recommendation 2 for market clearing times in day-ahead markets, in identifying ways to improve the gas-electric interface to ensure daily gas availability for all end user customers, including gas-fired power generation, in the most reliable, economically rational way to benefit the largest number of commercial participants. In this instance, it is recommended that the existing rules governing the scheduling and holding of pipeline capacity be revised to allow for more flexible intraday nominations without penalties to enable an appropriate allocation of available capacity to customers dependent upon gas takes to meet their daily delivery requirements. As noted earlier in this paragraph, standards development supporting flexibility in scheduling goes hand in hand with the need to revise the pipeline capacity and market clearing timelines to harmonize the gas-electric interface.

2. Unsynchronized market clearing times, gas and electric delivery days, the difference between nomination timelines and trading timelines, and gas supply timelines for natural gas and electricity sometimes create challenges that may possibly require changes to market timelines. At a minimum, standards supporting schedule coordination and additional communications between the two markets may be needed.
 - This recommendation incorporates observations noted for: 1.5, 1.6, and 2.15.
 - The recommendation is linked to similar NAESB standards that have been defined for natural gas timelines -- which could impact capacity release program timelines, and communications between pipeline operators and generator facility operators. Those standards may require changes if standards development for this item is undertaken.
 - Fundamental reasons why standards development in this area should be undertaken:
 - This recommendation is linked to Recommendation 1 above. The unsynchronized timelines between the nomination periods for pipeline capacity, on the one hand, and the market clearing times for power dispatch in organized markets, on the other, are well known. If both the gas and electricity sectors want to ensure power reliability in a scenario of significantly higher gas dependency for power generation, this matter must be addressed to seek solutions broadly acceptable to as many commercial participants as possible, and to inquire whether standards should be developed.

- Cautionary considerations to be taken into account if standards development is to be pursued:
 - Load profiles in both the natural gas and electricity markets present challenges to reaching more uniform market clearing times.
 - Convergence of natural gas and electricity delivery days may be achievable with policy guidance.

- 3. Standard development should be considered to further promote the availability of information to specific entities in order to assist in addressing GEH issues to include (1) the status of generation and pipeline capacity, (2) access to critical infrastructure information needed by electric service providers in curtailment conditions including information on gas-fired generators, and (3) support of decision enabling tools related to contingency response and day-of-service operations. The communications protocols and effective means, by which communication would take place for situational awareness reporting, recognizing confidentiality constraints, are key components for consideration. Nuclear Power Plant Communications (Report 16, Nuclear Plant Interface Coordination – Standard NUC-001-2, NERC, April 2010, <http://www.nerc.com/files/NUC-001-2.pdf>) and other similar reports may be reviewed as potential reference points for standards development. NAESB communications protocol standards and security standards should be reviewed periodically to ensure they are robust enough to support the sharing of information envisioned in this development.
 - This recommendation incorporates observations noted for: 1.12, 3.3, 3.4, 3.5, 4.0, 4.1, 4.2, 4.4, 4.6, 4.7, and 4.8.
 - The recommendation is linked to similar NAESB standards that have been defined for NAESB for scheduling and for communications between pipeline operators and generation facility operators, which may require changes if standards development for this item is undertaken. The recommendation is also linked to similar NAESB standards that have been defined for NAESB security standards and communication protocol standards, which may require changes if standards development for this item is undertaken.
 - Fundamental reasons why standards development in this area should be undertaken:
 - This recommendation addresses the need for improved communications between the gas and electricity sectors to attain a higher degree of situational awareness to address instances of unforeseen capacity constraints or emergency conditions. It also is intended to ensure a higher quality of information for all commercial participants whether or not they participate in organized power markets. While this recommendation builds upon Recommendations 1 and 2, it is not dependent upon their adoption, and can be considered separately on its own merits for purposes of standards development.
 - This recommendation is intended to complement the need for openness and transparency, with the possibility of creating a formalized structure of communications between the electricity and gas sectors. At the same time, this need for formalized, open communications needs to be tempered with adherence to the legal requirements prohibiting anticompetitive conduct, and refraining from placing into the public domain information that could jeopardize the safety and security of the system.
 - Cautionary considerations to be taken into account if standards development is to be pursued:
 - The communications noted cover both real-time and operational planning schedules.
 - Three levels of communication exchange should be addressed – public consumption, market participant communications and operator-to-operator communications.

POLICY CONSIDERATIONS:

CONTEXT WITHIN WHICH THE POLICY ISSUES WERE IDENTIFIED BY COMMITTEE MEMBERS:

- Individual observations stand by themselves and are not considered positions endorsed by the Committee as no votes are to be taken. They were provided from the documents listed as sources for the Committee and from the discussions held in the Committee meetings.
- The Committee is not addressing whether a policy should be developed; however, policy decisions will likely affect NAESB standards and work products.
- Anything earmarked as a possible policy consideration is a recognition that it is an issue that is outside NAESB's purview but has generated considerable discussion and concern.
- The Committee recognizes that many of these operational issues transcend regions or extend beyond gas and electric service territories or the jurisdiction of PUC's, RTOs and ISOs.
- The Committee also recognizes that gas distributors and pipelines are not represented in RTOs or ISOs and that pipelines have other customers besides electric generators.
- One criteria for development of a policy would be a regulatory action or commercial arrangement affecting the balance of rights between two parties or someone is commercially disadvantaged.
- The observations that were identified as either primarily or secondarily related to policy development were done so presumably because there were no identified fundamental reasons given for why the industry should not consider standards development as helpful to the market in addressing GEH issues.
- As observations are listed for each of the consolidated issues, it can be seen that there is an overlap across policy issues, commercial issues and standards development recommendations. These overlaps are to be expected as the observations are multi-faceted, in which there may be standards development recommended for part of an observation at the same time that there are considerations for policy direction or regional commercial practices for other parts of an observation.

OBSERVATIONS RAISING POLICY ISSUES:

1. Significant differences in both natural gas and electric markets day-of service and day-ahead scheduling procedures create the gaps in the clearing of gas and electricity markets and may require policy recommendations aimed at synchronizing the clearing times and the energy delivery day for both markets.
 - This recommendation incorporates observations noted for: 1.2, 1.5, 1.6, 1.7, 1.8, and 1.10.
 - If an impasse by the parties participating in standards development for the natural gas and electric markets day-of service and day-ahead scheduling occurs, it may be resolved when gaps between the two markets are addressed – which could require policy guidance.

2. Recognizing that market design issues are regional and may be most appropriately addressed by the ISOs and RTOs directly, the economics surrounding the use and cost recovery for firm and interruptible capacity, including who holds and pays for the gas pipeline capacity needed to back up renewables or to serve normal electric load requirements is a core issue for both the day-of and the day-ahead markets.
 - This recommendation incorporates observations noted for: 2.2, 2.3 and 2.5.
 - If alternate economic models for cost recovery are considered to address the use of natural gas in power generation including use of renewables, which may require use of firm natural gas capacity, policy guidance at the state and federal level will be needed. A cost-benefit analysis of the risk of curtailments and costs incurred by those curtailments compared to the costs for adequate capacity to avoid curtailments would be needed, possibly across systems and states to best understand the impacts.

3. State curtailment policies impact both natural gas and electric markets, and it should be recommended to policy makers that a review of those policies may be helpful to ensure that policies do not inadvertently lead to interruption of service, depending on the priorities outlined in the state curtailment policies. More structured communications and availability of information for decision making in stress conditions could also require an examination that would lead to possible policy changes and standards changes to support the movement of natural gas to electric generation.
 - This recommendation incorporates observations noted for: 3.1, 3.3, 3.4, 3.5, 3.6, and 3.7.
 - In addition to policy guidance, NAESB WGQ Standard No. 1.3.80 could be considered for revisions to add flexibility in addressing movement of natural gas to other delivery points. To consider changes to standards such as 1.3.80 could require policy guidance.
 - Policy guidance may be needed to allow for structured communications and information available for decision making in times of stress that could lead to implementing curtailment plans. This structured communication and information could take the form of: (1) the status of dispatchable generation and available pipeline capacity, (2) pipeline outages (only three possibilities: supply failure, equipment failure, or loss of electric compression due to generation outages) and (3) generation outages impacting pipelines and LDCs.

4. The increasing interdependency of the natural gas and electric markets will require more timely information to enhance market operability. Mechanisms (standards, rules, tools and products) should be in place to provide the confidentiality required to insure competitive markets and to prevent unintended anti-competitive behavior. Adequate security measures will be needed to ensure the protection and integrity of the information made available, including restricting receipt of some information.
 - This recommendation incorporates observations noted under 4.0, 4.4, 4.5, and 4.7.
 - Policy guidance may be needed to compel a uniform delivery and accessibility to information so that decision making is not impeded.
 - Existing policies supporting protection of cyber-assets and addressing data privacy, as well a protection of the sound operation of competitive markets should be reviewed to ensure that the rules are robust enough to support enhanced and increased information sharing.
 - If an impasse by the parties participating in standards development for the natural gas and electric markets for the availability of more timely information to enhance market operability occurs, it may require policy guidance.

COMMERCIAL PRACTICE CONSIDERATIONS:

CONTEXT WITHIN WHICH THE COMMERCIAL PRACTICE ISSUES WERE IDENTIFIED BY COMMITTEE MEMBERS:

- Individual observations stand by themselves and are not considered positions endorsed by the Committee as no votes are to be taken. They were provided from the documents listed as sources for the Committee and from the discussions held in the Committee meetings.
- Commercial issues related to gas-electric market harmonization may eventually lead to standards development where there is broad enough attractiveness and a need for the predictability of standardization, but it is the opinion of the Committee that at this time standards development is not necessary in the areas addressed here.
- Regional and pipeline-specific arrangements may not lend themselves to the broader uniformity that is provided when creating standards with regional choices.
- Commercial issues that are specific to individual pipeline systems, ISOs and RTOs, or commercial arrangements through bilateral agreements with specific generation owners may be best addressed by the stakeholders of those situations, rather than extending the analysis of the issues to a much broader audience.
- A fundamental underpinning of commercial solutions is that they are inherently bilateral, wherein neither side of the transaction is compelled to agree. This balance of rights and discretion among generators, organized markets, the pipelines that serve them, and the other customers dependent upon those pipelines must be maintained for commercial solutions to work. Departures from that balance can and should only be considered or addressed in the policy arena, outside of NAESB's purview.
- As commercial practices are more broadly accepted, they may be the basis for standards development either to provide conformity across the country or to provide conformity with regional or operational differences identified by the interested stakeholders. However, again, such standardization cannot move forward if it involves an involuntary shifting of relative rights until there is a prior policy determination.
- As commercial practices are put in place to support harmonization of the two markets at a regional level, should existing standards inhibit the adoption of the practices, then standards should be reviewed to determine if changes are needed.
- As observations are listed for each of the consolidated issues, it can be seen that there is an overlap across policy issues, commercial issues and standards development recommendations. These overlaps are to be expected as the observations are multi-faceted, in which there may be standards development recommended for part of an observation at the same time that there are considerations for policy direction or regional commercial practices for other parts of an observation.

OBSERVATIONS RAISING COMMERCIAL PRACTICES ISSUES:

1. Flexibility in the interactions of the natural gas and electric markets is used now to meet customer needs. These services reflect the specific operational or regional requirements of the pipelines and pipeline customers and would probably not be candidates for standards development. Additional services can be introduced and implemented through services offered by pipelines to their respective customers.
 - This recommendation incorporates observations noted for: 1.1, 1.11, 2.4, 2.10, 2.14, 2.15, 3.1, and 3.2.
 - Pipeline no-notice and park-and-loan services; plans for addressing contingency response and unanticipated variability in demand; incorporating the use of LNG and storage for flexibility; pipeline services that could be designed to offer quick movement of gas or capacity between shippers and generators downstream of constraints are examples of regionally based or commercial/bilateral agreements that provide flexibility in the markets, are currently implemented regionally to address regional needs, but are wholly or in part not suitable for standards development.
 - Framing issues for commercial practices that introduce flexibility but are not suitable for broader market applications are:
 - As services are offered, changes may be required to existing standards.
2. Use of the natural gas firm transportation service to support power generation may require specifically designed transportation services to meet market clearing and reliability requirements in the electric market.
 - This recommendation incorporates observations noted for: 1.2 and 2.1.
 - Commercial practices and services offered by pipelines to generators, addressing specific generator needs to utilize their firm capacity outside of the timely nomination cycle, could address market clearing issues. These practices are regionally defined and do not have an applicability to a more broader scale that would be envisioned for standards development.
3. Natural gas pipeline capacity growth that is needed to meet gas-fired power generation commitments is determined through commercial practices of the pipelines and generators with interaction to ensure that reliability requirements are met.
 - This recommendation incorporates observations noted for: 2.13 and 2.17.
 - The commercial practices and reliability requirements are designed to address stress that can be introduced when generation units are retired or taken offline. Standards development is generally not appropriate, other than possibly to provide information for decision making and structured communication, and to provide granularity in electricity capacity products sub-product characteristics.

4. Services can be and have been provided to avoid potential gas-fired power generation curtailments resulting from the complexities introduced when the timely nomination cycle is at odds with generation timing, when the economics of decision making may lead to the selection of interruptible service (which by definition may be interrupted) and when nominations cross multiple pipelines.
 - This recommendation incorporates observations noted for: 1.3, 1.4, 2.2, 2.3, 2.6, 2.8, 2.9, 2.16, and 2.18.
 - Under state curtailment plans, there is a risk that generators may have an obligation to generate without the ability to receive the necessary natural gas supply. This cycle may be addressed in individually tailored services. Similarly, the complexities presented in (a) nominations across multiple pipeline and control areas; (b) economic decisions considering the cost differential for services and the consequent potential impacts on reliability; and (c) the use of storage or LNG to support gas-fired power generation, may all be addressed in specifically tailored services or agreements supporting the regional or commercial practices of the pipelines and generators.
 - As a clarification, “curtailment” in natural gas transportation perspective occurs when it becomes necessary to cut firm transportation service, not interruptible service. When interruptible service is cut, it is considered interrupted – not curtailed.
 - Fundamental reasons why standards development in this area should not be undertaken:
 - It is not appropriate to develop standards that would mandate contracting for firm transportation.

APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES

For the survey⁴, each of the observations⁵ were considered by Committee members and identified related to possible standards development, related to policy issues or related to commercial practices issues. The Committee members could choose to place an observation in one or more of the three categories or they could identify the observation as more of a comment. The results of the survey were tabulated⁶, and for those observations having the highest or second highest number of votes in the category of issues related to possible standards development, they were used as the basis to form the recommendations for standards development. Similarly, for those observations having the highest or second highest number of votes in the category of issues related to policy or to commercial practices, those observations were used as the basis for the consolidations into the issues identified for policy or commercial practices considerations.

Following are the three tables that have been sorted so that you can more easily identify the observations listed as either a primary or secondary core issue for possible standards development, or policy considerations or commercial practices considerations. The tabulated voting is shown so you can review the observation and how the Committee members considered each observation. In some cases, the vote result is quite close showing a considerable crossover of issues. In other cases, the survey results indicate that the Committee as a group determined that the observation fit more specifically into one of the three issues.

The survey results in aggregate⁶ show the listing of the observations in numeric order delineated by the topics of scheduling, capacity, curtailment or information sharing.

⁴ The GEH Observations by Issue survey can be found at: http://www.naesb.org/pdf4/geh042612_survey.docx

⁵ Each of the observations are based on findings from one or more of the reports provided in Appendix D: List of Reference Reports. The findings from the reports were listed in working document "Matrix of Issues" (<http://www.naesb.org/pdf4/geh021512w1.docx>), from which the committee observations were identified.

⁶ The aggregate GEH Observations by Issue survey results can be found at: http://www.naesb.org/pdf4/geh042612_survey_results.docx

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Below please find the list of observations where if noted in green indicate that they are primary, and in yellow indicate that they are secondary for standards related issues that could lead to standards development. These observations have been consolidated, and reviewed in regard to:

- relationship to other existing standards,
- observations that lead to a determination that there are no fundamental reasons why standards development could not go forward, and
- if there is fundamental disagreements for standards development, they are to be highlighted for consideration.

		STANDARDS - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS			Standards		Comment
		Policy	Commercial	Standards Primary	Standards Secondary		
1.	Observations and Core Issues: Scheduling and other inconsistencies in the interactions of the two markets impact the effectiveness of providing gas and electric service. Core issue: Should NAESB examine: the gas and electric scheduling timelines to create more certainty and flexibility in scheduling, recognizing that providing flexibility in one area may take away flexibility in another?						
1	1	10	14	22		5	
1	2	15	19		17	3	
1	3	12	13		12	12	

APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES

		STANDARDS - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Policy		Commercial		Standards Primary	Standards Secondary	Comment
1	4	Scheduling flexibility can be introduced on a pipeline by pipeline basis to the pipeline's customers. Natural gas market grid synchronization plays a role, as in multi-pipeline nominations which may cross multiple control areas, the least flexible pipeline in the chain of nominations will govern the timing of submittal and confirmation of transaction(s).	9	12	21			11		
1	5	If timelines were modified to reduce the gaps in the clearing of gas and electricity markets, a nine hour gap could be reduced to a one hour gap if the timelines were modified to an east and a west model. This would be a considerable change to the timelines supported by the pipelines – with a focus on synchronizing the clearing times and the economic day for both markets.	22	7	24			2		
1	6	Significant differences in both natural gas and electric markets day-of service and day-ahead scheduling procedures could lead to separate considerations in drafting recommendations for the day-ahead and the intraday scheduling of energy. For example, the completion of the electric day-ahead market (which is iterative and can take approximately four hours) could be synchronized with the natural gas timely nomination cycle for scheduling energy over a majority of the hours in the peak operating period of the electric day. Added intraday flexibility in both the electric market offers and gas scheduling might improve scheduling coordination for those hours that are not common to the same gas and electric delivery days.	15	9	23			5		
1	7	The timely natural gas nomination process, which is iterative, can take from three to four hours. The hourly or intraday gas nomination process is considerably shorter as is the adjustments and changes at the margin to the decisions made in support of the timely nomination process. In some cases, gas-fired generators could need to make changes in their usage more quickly than the current nomination processes or services allow.	5	8	21			10		

APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES

		STANDARDS - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Policy		Standards		Comment
				Commercial	Policy	Primary	Secondary	
1	8	<p>There are a number of options offered by some pipelines that introduce flexibility through the use of hourly firm non-ratable takes. Ratable takes are taken on a uniform hourly basis over the day. Non-ratable takes may be spread over a shorter period. There is a tension between the timely/intraday nomination schedule as outlined in NAESB WGQ Standard No. 1.3.1 and the hourly flexibility provided by non-ratable deliveries on some pipelines and/or by use of hourly nominations, which comes into play when bumping is to be applied to preserve firm transportation service priority. Following the schedule outlined in the NAESB standards, the interruptible transportation service may have already been used to deliver the volume by the time it is determined that bumping is to be enacted to provide firm service for hourly nominations. A recent opinion issued in FERC RPI1-2569-002, et al. (http://elibrary.ferc.gov/idmws/file_list.asp?accession_num=20120315-3006), provides some background for this observation.</p>		13	8	24		9
1	10	<p>a) Incentives could be designed into the natural gas scheduling and confirmation process for a wholly electronic process that would require less time to complete than the existing process which includes communications that are not fully electronic. (This could incorporate the thoughts in observation 1-2).</p> <p>b) If a fully electronic expedited process for natural gas nominations were implemented, it may be prudent to re-examine the bumping rules for the market participants who follow the fully electronic expedited process. The existing combination of manual and electronic process for natural gas nominations could exist as is.</p>		18	9	24		5
1	11	<p>Using natural gas-fired generation to back up renewables could require enhanced and additional flexibility in day-of nominations and/or no-notice service or similar services.</p>		16	14		14	12
1	12	<p>The transparency provided through posting of scheduling and capacity information by major non-interstate natural gas pipelines could be helpful, if the impact of the intrastates market on the interstate market is deemed significant.</p>		17	5		14	11

**APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES**

STANDARDS - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Policy		Commercial		Standards Primary	Standards Secondary	Comment
1	13	Deleted. Added to Observation 1-8.						
2	15	<p>2. Observations and Core Issues as of April 24, 2012:</p> <p>Capacity issues including the availability and determination to use firm and interruptible capacity to support load requirements is a core issue in the interdependencies of the two markets, for both the day-of and the day-ahead markets.</p> <p>Core Issue: Recognizing the interdependency of the gas and electric markets in both the day-of and day-ahead operations, should NAESB examine:</p> <ul style="list-style-type: none"> the relationship of pipeline service options and the electric capacity equivalent, (i.e. the character and quality of firmness of natural gas service and generator service selections is consistent with the service obligation/expectation of the generators and system operators/RTOs), and the structure of communications to make for a better utilization of existing infrastructure and capacity. 						
	2	8	11	31	0			

**APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES**

STANDARDS - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Policy		Commercial		Standards Primary	Standards Secondary	Comment
		19	5	26	4			
3	3	<p>3. Curtailment policies and practices are components of the interdependency of the two markets that impacts harmonization. Curtailment is interruption of service that has been scheduled. Core Issue: Should NAESB examine its existing or new standards (NAESB WQG Standard No. 1.3.80 as an example) to support the movement of natural gas to support electric generation, and conversely, electricity needed by natural gas pipelines, to better respond in situations of potential curtailment and involuntary interruption of service, (improving capacity release program is an example)?</p>						
3	3	<p>Knowing the status on dispatchable generation and pipeline capacity can be important in decisions to modify planned outages scheduled for gas-fired facilities, transmission, and pipelines. The information is also crucial in addressing unplanned outages. However, it is not clear how this impacts gas-electric market harmonization, Entities responsible for balancing electricity supply and demand need improved overall situational awareness of the potential impacts of pipeline operations. This includes ensuring sufficient notice of scheduled outages on natural gas pipelines; balancing authority knowledge regarding those entities that can be impacted by pipeline outages; and understanding between the balancing authority and the generator regarding the impact of a pipeline outage to generator operations. Similarly, pipeline and storage operators as well as LDC with gas generation behind their city-gate need improved overall situational awareness of the potential impacts on their operations from planned or unplanned generation or transmission outages, expected changes in electricity demand, and expected changes in renewable generation and the potential impact on gas generation requirements. This includes ensuring sufficient notice of likely impacts on gas generation served by the pipeline, storage or LDC. Nonetheless, public disclosure of information of this type could have unintended anti-competitive inter-fuel impacts.</p>						

APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES

		STANDARDS - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Policy		Standards		Comment
				Commercial	Policy	Primary	Secondary	
3	4	When determining actions to be taken by electric service providers in curtailment conditions, the information on critical infrastructure is needed. That information includes electric compressor locations for those interstate and intrastate pipelines' that use electric compressors, electric compressor locations for those LDCs that use electric compressors, gas processors' locations that use grid or utility provided electricity to maintain operations, storage operators locations that use grid or utility provided electricity to maintain operations, other locations that require electricity to maintain flow measurement and flow management/control would be helpful.	20	9	21		5	
3	5	In imminent stress conditions leading to possible curtailments of firm service or interruption of balance of power deliveries, identification of the gas-fired generators to run, when they are going to run, and the contractual rights for needed capacity is information that is helpful to the decision making entities in both markets.	14	11	22		8	
4.		Additional and more formal structure for communications of the parties in the gas and electric markets is needed, particularly for unanticipated demand situations. Core Issue: Should NAESB examine a more comprehensive approach to communications between the two markets and among participants in each of the markets as the communications impact the interdependency of the markets?						
4	0	As information is made available to support market transparency and decision making that enhances market interoperability, care should be taken that the needed confidentiality is preserved so that anti-competitive aspects are not introduced. The purpose of the information, who provides the information, who accesses the information, and how the information is presented, should be analyzed to ensure that the needed confidentiality is preserved.	22	5	23		7	
4	1	Communication and associated procedures may support the development of decision enabling tools with respect to day-of service, that may support efforts for contingency response.	4	5	24		9	

APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES

		STANDARDS - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Policy		Commercial		Standards		Comment
								Primary	Secondary	
4	2	Nuclear Power Plant Communications (Report 16, Nuclear Plant Interface Coordination – Standard NUC-001-2, NERC, April 2010, http://www.nerc.com/files/NUC-001-2.pdf) could be used as a template for a more formal structure for communications.	8	1				13	19	
4	4	An information clearinghouse may be considered as a mechanism for accessing posted information and providing information to be posted, as not all electric utilities are represented by ISOs and RTOs, who as regional entities can provide a similar function to their stakeholders.	14	10				19	7	
4	5	Under FERC Order No. 698, mechanisms are in place to provide information between the pipelines and gas operations group of the generators. Additional information needed is managed on an informal basis. It may be that a more formal structure would be advisable on the state of the electric system and the availability of gas from the pipelines. On peak days, notifications are sent when there are issues. It may be reasonable to provide additional structure on the communications. (Referenced also in item no. 3-8)	13	4				28	3	
4	6	With an increased focus on safety and integrity management issues in both natural gas and electric markets, as infrastructure ages there may be an increase in the number of planned outages due to maintenance, which emphasizes the importance of communication process in notifications to affected parties to ensure that appropriate planning occurs.	5	6				19	15	
4	7	More formalized structure for communication should extend past pipeline and plant operators to any segment of the two markets that is impacted by or makes decisions that affects the interdependency of the two markets. This broader accessibility is tempered by the protection of and limited access to commercially or operationally sensitive data.	19	6				27	3	
4	8	Communications protocols may reflect the technology that was common when the protocols were adopted such that both now need updating in order to support provision of greater flexibility.	3	4				29	8	

**APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES**

Below please find the list of observations where if noted in green indicate that they are primary, and in yellow indicate that they are secondary for policy related issues. These observations have been consolidated, and reviewed in regard to:

- relationship to other existing standards,
- observations that lead to a determination that there are fundamental reasons why policy decisions are needed to address gas-electric harmonization issues, and
- fundamental disagreements by market participants that, to be addressed, would require policy decisions or guidance.

POLICY - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Primary Policy	Secondary Policy	Commercial Standards	Comment
<p>1. Observations and Core Issues as of April 24, 2012: Scheduling and other inconsistencies in the interactions of the two markets impact the effectiveness of providing gas and electric service. Core issue: Should NAESB examine:</p> <ul style="list-style-type: none"> • The gas and electric scheduling timelines to create more certainty and flexibility in scheduling, recognizing that providing flexibility in one area may take away flexibility in another? 					
1	3		12	12	12
	5		22	7	24
	5				2

APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES

		POLICY - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Primary Policy		Secondary Policy		Commercial		Standards		Comment	
1	6	Significant differences in both natural gas and electric markets day-of service and day-ahead scheduling procedures could lead to separate considerations in drafting recommendations for the day-ahead and the intraday scheduling of energy. For example, the completion of the electric day-ahead market (which is iterative and can take approximately four hours) could be synchronized with the natural gas timely nomination cycle for scheduling energy over a majority of the hours in the peak operating period of the electric day. Added intraday flexibility in both the electric market offers and gas scheduling might improve scheduling coordination for those hours that are not common to the same gas and electric delivery days.			15	9	23	5					
1	8	There are a number of options offered by some pipelines that introduce flexibility through the use of hourly firm non-ratable takes. Ratable takes are taken on a uniform hourly basis over the day. Non-ratable takes may be spread over a shorter period. There is a tension between the timely/intraday nomination schedule as outlined in NAESB WQQ Standard No. 1.3.1 and the hourly flexibility provided by non-ratable deliveries on some pipelines and/or by use of hourly nominations, which comes into play when bumping is to be applied to preserve firm transportation service priority. Following the schedule outlined in the NAESB standards, the interruptible transportation service may have already been used to deliver the volume by the time it is determined that bumping is to be enacted to provide firm service for hourly nominations. A recent opinion issued in FERC RP11-2569-002, et al, (http://elibrary.ferc.gov/idmws/file_list.asp?accession_num=20120315-3006), provides some background for this observation.			13	8	24	9					
1	9	As more efficiencies and flexibility can be introduced into the scheduling for both markets, an outcome may be an increased market reliance on natural gas-fired generation over other fuels used for electricity generation.			8	5	2	23					

APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES

POLICY - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Primary Policy	Secondary Policy	Commercial		Standards	Comment
1	10		18	9	24	5	
<p>a) Incentives could be designed into the natural gas scheduling and confirmation process for a wholly electronic process that would require less time to complete than the existing process which includes communications that are not fully electronic. (This could incorporate the thoughts in observation 1-2).</p> <p>b) If a fully electronic expedited process for natural gas nominations were implemented, it may be prudent to re-examine the bumping rules for the market participants who follow the fully electronic expedited process. The existing combination of manual and electronic process for natural gas nominations could exist as is.</p>							
1	11	16		14	14	12	
<p>Using natural gas-fired generation to back up renewables could require enhanced and additional flexibility in day-of nominations and/or no-notice service or similar services.</p>							
1	12	17		5	14	11	
<p>The transparency provided through posting of scheduling and capacity information by major non-interstate natural gas pipelines could be helpful, if the impact of the intrastates market on the interstate market is deemed significant.</p>							
<p>2. Observations and Core Issues as of April 24, 2012: Capacity issues including the availability and determination to use firm and interruptible capacity to support load requirements is a core issue in the interdependencies of the two markets, for both the day-of and the day-ahead markets. Core Issue: Recognizing the interdependency of the gas and electric markets in both the day-of and day-ahead operations, should NAESB examine:</p> <ul style="list-style-type: none"> the relationship of pipeline service options and the electric capacity equivalent, (i.e. the character and quality of firmness of natural gas service and generator service selections is consistent with the service obligation/expectation of the generators and system operators/RTOs), and the structure of communications to make for a better utilization of existing infrastructure and capacity. 							
2	2		12	12	8	18	
<p>A better understanding of the electric installed capacity and production requirements would take into account: (1) conditions under which generators determine to use firm fuel and capacity, (2) the capacity needed to support must serve loads, and (3) the barriers or economic forces that impede generators from contracting for services to meet must serve loads.</p>							

**APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES**

POLICY - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Primary Policy	Secondary Policy	Commercial	Standards	Comment
2	3	In RTO/ISO markets, with consideration for how plants are dispatched, the cost differentials between firm service and interruptible service should be examined, which may highlight the need for customer education and the definition of reasonable costs to support reliable service.	25	21	3	8
2	5	In RTO/ISO markets, ISOs and RTOs are not fuel biased in reviewing the generators' ability to provide electricity. The generators' fuel neutral requirements to meet load on a peak day would be helpful in avoiding or reducing curtailments. Some states may have policies in place that identify a preferred loading order to generation.	26	6	5	12
2	6	Market design issues are regional and may be most appropriately addressed by the ISOs and RTOs directly – an example of which could be the coordination issues for long term forward capacity electric markets. Gas service fixed cost recovery should be considered, including who holds and pays for the gas pipeline capacity needed to back up renewables or to serve normal load requirements. Product definition requirements and the form of firm service appropriate to the operational obligations may need to align with those regional requirements, although there may be common elements that would facilitate defining the service characteristics and scheduling rights needed to serve the electric sector.	25	23	15	3
2	12	It is a given in the energy markets that adequate lead time is needed to secure any required replacement capacity and address any associated stress when the decision is made to: (1) retire a generating unit; or (2) decommit (e.g., take offline) a generating unit.		9	3	17
2	13	Adequate lead times to secure the replacement capacity and energy is needed in order to reliably address any stress that is introduced when generation units are retired or taken offline.	14	13	7	14

**APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES**

POLICY - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Primary Policy	Secondary Policy	Commercial		Standards	Comment
				13	11		
2	14		11				14
	<p>Intermittent wind and solar generation have an impact on pipeline capacity when gas-fired generation is used as a backstop to balance the system. ERCOT provides the data related to such generation in 15 minute increments to support planning. Weather conditions upwind of wind generation can be monitored to better plan for the requirements to be placed on all supply/demand responsive sources, which would include gas-fired generators and their pipelines.</p>						
2	16	20			19	2	7
	<p>What economic decisions should be made regarding the costs assumed by the gas-fired generators to back up the variable energy resources used? (Would this be similar to costs assumed for providing net load following service needed, (weather variability affecting consumption in conjunction with output of variable energy resources?)</p>						
2	17		14		18	12	13
	<p>Optimizing and servicing the growing electricity and natural gas capacity markets, and adding capacity to the markets may point to process improvement measures and structured communications, among other actions – which would necessarily involve all segments of the markets. Both natural gas and electricity capacity products in the future may need to divide into sub product characteristics, which for the electricity products, may impact the fuel service requirements - e.g. contingency reserves or peaking, net load following and the like.</p>						
2	18		14		20	2	14
	<p>To the extent that gas storage is sought to enhance reliability, need to address areas of the country where storage is geologically infeasible (perhaps via innovative above-ground storage technology for power plants or LNG needle peaking facilities or alternate fuel requirement).</p>						

**APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES**

POLICY - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Primary Policy	Secondary Policy	Commercial	Standards	Comment
<p>3. Curtailment policies and practices are components of the interdependency of the two markets that impacts harmonization. Curtailment is interruption of service that has been scheduled. Core Issue: Should NAESB examine its existing or new standards (NAESB WGQ Standard No. 1.3.80 as an example) to support the movement of natural gas to support electric generation, and conversely, electricity needed by natural gas pipelines, to better respond in situations of potential curtailment and involuntary interruption of service, (improving capacity release program is an example)?</p>						
3	1	Generators can introduce flexibility through the use of reserves and ancillary services, which is determined through regionally based decisions and considered part of market design.	11	17	7	11
3	3	Knowing the status on dispatchable generation and pipeline capacity can be important in decisions to modify planned outages scheduled for gas-fired facilities, transmission, and pipelines. The information is also crucial in addressing unplanned outages. However, it is not clear how this impacts gas-electric market harmonization. Entities responsible for balancing electricity supply and demand need improved overall situational awareness of the potential impacts of pipeline operations. This includes ensuring sufficient notice of scheduled outages on natural gas pipelines; balancing authority knowledge regarding those entities that can be impacted by pipeline outages; and understanding between the balancing authority and the generator regarding the impact of a pipeline outage to generator operations. Similarly, pipeline and storage operators as well as LDC with gas generation behind their city-gate need improved overall situational awareness of the potential impacts on their operations from planned or unplanned generation or transmission outages, expected changes in electricity demand, and expected changes in renewable generation and the potential impact on gas generation requirements. This includes ensuring sufficient notice of likely impacts on gas generation served by the pipeline, storage or LDC. Nonetheless, public disclosure of information of this type could have unintended anti-competitive inter-fuel impacts.	19	5	26	4

APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES

POLICY - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Primary Policy	Secondary Policy	Commercial		Standards	Comment
3	4		20	9	21	5	When determining actions to be taken by electric service providers in curtailment conditions, the information on critical infrastructure is needed. That information includes electric compressor locations for those interstate and intrastate pipelines' that use electric compressors, electric compressor locations for those LDCs that use electric compressors, gas processors' locations that use grid or utility provided electricity to maintain operations, storage operators locations that use grid or utility provided electricity to maintain operations, other locations that require electricity to maintain flow measurement and flow management/control would be helpful.
3	5		14	11	22	8	In imminent stress conditions leading to possible curtailments of firm service or interruption of balance of power deliveries, identification of the gas-fired generators to run, when they are going to run, and the contractual rights for needed capacity is information that is helpful to the decision making entities in both markets.
3	6	16		11	8	14	The decisions made as the two markets work together should focus on how best to serve the customer and balance the cost of delivered power against the assurance that firm service is not interrupted on days experiencing peak day conditions or other stress conditions.
3	7	30		6	5	5	Supply curtailment policies at the state level may need review, as well as state commissions' use of base gas instead of operational capacity to address shortages. Some generators may purchase gas from LDCs, and even those that purchase their own gas may be behind an LDC city-gate and its transportation policies. LDCs may use end use curtailment to support residential demand. Storage factors into curtailment policies if it is behind the city-gate, and may relieve constraints that could occur during peak periods.

APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES

POLICY - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Primary Policy	Secondary Policy	Commercial	Standards	Comment
<p>4. Additional and more formal structure for communications of the parties in the gas and electric markets is needed, particularly for unanticipated demand situations. Core Issue: Should NAESB examine a more comprehensive approach to communications between the two markets and among participants in each of the markets as the communications impact the interdependency of the markets?</p>						
4	0	As information is made available to support market transparency and decision making that enhances market interoperability, care should be taken that the needed confidentiality is preserved so that anti-competitive aspects are not introduced. The purpose of the information, who provides the information, who accesses the information, and how the information is presented, should be analyzed to ensure that the needed confidentiality is preserved.	22	5	23	7
4	4	An information clearinghouse may be considered as a mechanism for accessing posted information and providing information to be posted, as not all electric utilities are represented by ISOs and RTOs, who as regional entities can provide a similar function to their stakeholders.	14	10	19	7
4	5	Under FERC Order No. 698, mechanisms are in place to provide information between the pipelines and gas operations group of the generators. Additional information needed is managed on an informal basis. It may be that a more formal structure would be advisable on the state of the electric system and the availability of gas from the pipelines. On peak days, notifications are sent when there are issues. It may be reasonable to provide additional structure on the communications. (Referenced also in item no. 3-8)	13	4	28	3
4	7	More formalized structure for communication should extend past pipeline and plant operators to any segment of the two markets that is impacted by or makes decisions that affects the interdependency of the two markets. This broader accessibility is tempered by the protection of and limited access to commercially or operationally sensitive data.	19	6	27	3

**APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES**

Below please find the list of observations where if noted in green indicate that they are primary, and in yellow indicate that they are secondary for commercial related issues that at this time would not lead to standards development. These observations have been consolidated, and reviewed in regard to:

- practices in existence today that address the underlying issues, but do not lend themselves to uniform market applicability,
- practices that are primarily adopted regionally or by specific pipeline, are distinct, and are unlikely to be extended to other regions or to all pipelines,
- observations that lead to a confidence that pipeline-specific or regional commercial practices have made significant progress to address gas-electric harmonization issues, and
- framing issues that put the observations in context, in particular recognizing the limitations of commercial initiatives that may encounter policy constraints.

		COMMERCIAL - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Policy	Standards		Comment
		Commercial Primary	Commercial Secondary		Standards	Comment	
<p>1. Observations and Core Issues: Scheduling and other inconsistencies in the interactions of the two markets impact the effectiveness of providing gas and electric service. Core issue: Should NAESB examine:</p> <ul style="list-style-type: none"> • The gas and electric scheduling timelines to create more certainty and flexibility in scheduling, recognizing that providing flexibility in one area may take away flexibility in another? 							
1	1		14	10		22	5
1	2	As generation units sign up for firm transportation, the bumping rules in the tariff provisions may impede the benefit of holding firm gas transportation. Added flexibility and types of gas transportation services may be needed by gas-fired power generators to meet the clearing and reliability requirements of the electric market.		15	19	17	3

**APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES**

COMMERCIAL - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Policy	Commercial Primary	Commercial Secondary	Standards	Comment
1	3	12	13		12	12
	<p>If a gas-fired generator submits a generation offer before scheduling gas and the generator is not informed as to whether its generation offer is accepted until after the deadline for a timely gas nomination, it runs the risk of being considered secondary firm, if the generator holds firm transportation, or interruptible. This exposes the generator to the risk of an obligation to generate without gas supply. On the other hand, if the gas-fired generator submits a timely nomination for transportation before knowing whether its generation offer has been accepted, it runs the risk of being caught long on gas supply that must be dealt with in the intraday market, exposing the generator to an economic loss or penalties.</p>					
1	4	9		12	21	11
	<p>Scheduling flexibility can be introduced on a pipeline by pipeline basis to the pipeline's customers. Natural gas market grid synchronization plays a role, as in multi-pipeline nominations which may cross multiple control areas, the least flexible pipeline in the chain of nominations will govern the timing of submittal and confirmation of transaction(s).</p>					
1	11	16		14	14	12
	<p>Using natural gas-fired generation to back up renewables could require enhanced and additional flexibility in day-of nominations and/or no-notice service or similar services.</p>					

**APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES**

		COMMERCIAL - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Policy	Commercial Primary	Commercial Secondary	Standards	Comment
		Primary	Secondary					
<p>2. Observations and Core Issues as of April 24, 2012: Capacity issues including the availability and determination to use firm and interruptible capacity to support load requirements is a core issue in the interdependencies of the two markets, for both the day-of and the day-ahead markets. Core Issue: Recognizing the interdependency of the gas and electric markets in both the day-of and day-ahead operations, should NAESB examine:</p> <ul style="list-style-type: none"> • the relationship of pipeline service options and the electric capacity equivalent, (i.e. the character and quality of firmness of natural gas service and generator service selections is consistent with the service obligation/expectation of the generators and system operators/RTOs), and • the structure of communications to make for a better utilization of existing infrastructure and capacity. 								
2	1	Firm gas transportation service customers may only experience problems on peak gas usage days, when they have not exercised their firm rights in accordance with the currently timely nomination cycle. Similarly, reliance in interruptible gas transportation service on peak gas usage days can be problematic, as it is likely that the firm gas transportation service customers exercising their rights may account for all available capacity.		7		12	7	22
2	2	A better understanding of the electric installed capacity and production requirements would take into account: (1) conditions under which generators determine to use firm fuel and capacity, (2) the capacity needed to support must serve loads, and (3) the barriers or economic forces that impede generators from contracting for services to meet must serve loads.		12		12	8	18
2	3	In RTO/ISO markets, with consideration for how plants are dispatched, the cost differentials between firm service and interruptible service should be examined, which may highlight the need for customer education and the definition of reasonable costs to support reliable service.		25		21	3	8
2	4	Variability in demand, such as unanticipated demand for natural gas or electricity, may be reflected as increased demand on gas-fired plants and other resources having short notice energy dispatch flexibility. Depending on the circumstances, costs and or prices may increase.		5		13	3	23

APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES

COMMERCIAL - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Policy	Commercial Primary	Commercial Secondary	Standards	Comment
2	6	25		23	15	3
		Market design issues are regional and may be most appropriately addressed by the ISOs and RTOs directly – an example of which could be the coordination issues for long term forward capacity electric markets. Gas service fixed cost recovery should be considered, including who holds and pays for the gas pipeline capacity needed to back up renewables or to serve normal load requirements. Product definition requirements and the form of firm service appropriate to the operational obligations may need to align with those regional requirements, although there may be common elements that would facilitate defining the service characteristics and scheduling rights needed to serve the electric sector.				
2	8	5		15	8	18
		After the RTO/ISO markets have estimated the firm capacity needed to meet load requirements, there are several pricing programs and markets available to them in ensuring the needed capacity commitments and dispatch flexibility.				
2	9	10	22		7	13
		Price signal information, which could be an input to cost recovery, is needed by generators when making economic decisions on fuels and services in support of reliable service.				
2	10	7	22		1	16
		Incorporating use of LNG and storage facilities as peak-shaving units can provide flexibility for power generation and expands the capability of the market in meeting demand for power.				
2	13	14		13	7	14
		Adequate lead times to secure the replacement capacity and energy is needed in order to reliably address any stress that is introduced when generation units are retired or taken offline.				
2	14	11		13	11	14
		Intermittent wind and solar generation have an impact on pipeline capacity when gas-fired generation is used as a backstop to balance the system. ERCOT provides the data related to such generation in 15 minute increments to support planning. Weather conditions upwind of wind generation can be monitored to better plan for the requirements to be placed on all supply/demand responsive sources, which would include gas-fired generators and their pipelines.				

APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES

COMMERCIAL - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Policy	Commercial Primary	Commercial Secondary	Standards	Comment
2	15	<p>8</p> <p>NAESB WGQ Standard No. 1.3.80 may be extended to better facilitate the quick movement of gas and/or capacity between shippers and generators downstream of a pipeline constraint, and in doing so, provide more effective use of existing infrastructure, and more liquidity to the market in an ICE like market: 1.3.80 To the extent the Transportation Service Provider's (TSP) other scheduling requirements are met, a TSP should support the ability of a Service Requester to redirect scheduled quantities to other receipt points upstream of a constraint point or delivery points downstream of a constraint point at any of the TSP's subsequent nomination cycle(s) for the subject gas day, at least under the same contract, without a requirement that the quantities be rescheduled through the point of constraint.</p>	8	11	31	0
2	16	<p>20</p> <p>What economic decisions should be made regarding the costs assumed by the gas-fired generators to back up the variable energy resources used? (Would this be similar to costs assumed for providing net load following service needed, (weather variability affecting consumption in conjunction with output of variable energy resources?)</p>	20	19	2	7
2	17	<p>14</p> <p>Optimizing and servicing the growing electricity and natural gas capacity markets, and adding capacity to the markets may point to process improvement measures and structured communications, among other actions – which would necessarily involve all segments of the markets. Both natural gas and electricity capacity products in the future may need to divide into sub product characteristics, which for the electricity products, may impact the fuel service requirements - e.g. contingency reserves or peaking, net load following and the like.</p>	14	18	12	13
2	18	<p>14</p> <p>To the extent that gas storage is sought to enhance reliability, need to address areas of the country where storage is geologically infeasible (perhaps via innovative above-ground storage technology for power plants or LNG needle peaking facilities or alternate fuel requirement).</p>	14	20	2	14

**APPENDIX A: SURVEY RESULTS
CATEGORIZATION OF GEH OBSERVATIONS INTO ISSUES RELATED TO STANDARDS DEVELOPMENT, POLICY OR COMMERCIAL PRACTICES**

COMMERCIAL - PRIMARY and SECONDARY CORE ISSUES & OBSERVATIONS		Policy	Commercial Primary	Commercial Secondary	Standards	Comment
<p>3. Curtailment policies and practices are components of the interdependency of the two markets that impacts harmonization. Curtailment is interruption of service that has been scheduled. Core Issue: Should NAESB examine its existing or new standards (NAESB WGQ Standard No. 1.3.80 as an example) to support the movement of natural gas to support electric generation, and conversely, electricity needed by natural gas pipelines, to better respond in situations of potential curtailment and involuntary interruption of service, (improving capacity release program is an example)?</p>						
3	1	Generators can introduce flexibility through the use of reserves and ancillary services, which is determined through regionally based decisions and considered part of market design.	11	17	7	11
3	2	Most pipelines already offer a park-and-loan service that uses linepack in meeting intermittent capacity requirements and provides for greater market flexibility. The flexibility provided by the use of non-ratable takes is made possible through the use of linepack. Linepack however may not be suitable to address issues that arise in peak day demand conditions for generators that have not already contracted for park-and-loan service or non-ratable takes. Taking linepack can impact the pipeline's deliverability and cause the pipeline to shut down the unauthorized party to preserve the reliability of the system. In addition, there may well be occasions when linepack is fully utilized to support other pipeline operations.	10	17	5	13
3	7	Supply curtailment policies at the state level may need review, as well as state commissions' use of base gas instead of operational capacity to address shortages. Some generators may purchase gas from LDCs, and even those that purchase their own gas may be behind an LDC city-gate and its transportation policies. LDCs may use end use curtailment to support residential demand. Storage factors into curtailment policies if it is behind the city-gate, and may relieve constraints that could occur during peak periods.	30	6	5	5

APPENDIX B: LIST OF NAESB GEH COMMITTEE MEMBERS

Member	Company/Organization
Vicky Bailey	BHMM Energy Services, LLC
Jim Buccigross	8760 Inc.
Craig Colombo	Dominion Resources
Valerie Crockett (Co-Chair)	Tennessee Valley Authority
Lorraine Cross	Cross & Company, PLLC
Alex DeBoissiere	The United Illuminating Company
Michael Desselle	Southwest Power Pool
Katie Elder	Aspen Environmental Group
Bruce Ellsworth	New York State Reliability Council
Lisa Epifani	Van Ness Feldman
Doug Field	Southern Star Central Gas Pipeline
Michelle Foss	University of Texas
Christopher Freitas	US Department of Energy (non-voting)
Arthur Fusco	Central Electric Power Cooperative Inc.
William Gallagher	Vermont Public Power Supply Authority
Bob Gee	Gee Strategies Group, LLC
Michehl Gent	Open Access Technology International, Inc.
Michael Goldenberg	FERC (non-voting)
Joseph Hartsoe	American Electric Power Service Corp.
Jesse D. Hurley	Shift Research, LLC
Kevin Kirby	ISO New England, Inc.
Richard Kruse	Spectra Energy Transmission
Gregory Lander	Capacity Center
Wayne Moore	Southern Company
John Moura	North American Electric Reliability Corporation
Rana Mukerji	New York Independent System Operator, Inc. (NYISO)
Lou Oberski	Dominion Resources Services, Inc.
Joelle Ogg	DC Energy
Randy E. Parker	ExxonMobil Gas and Power Marketing Company
Marty Patterson	American Midstream Partners, LP
Keith Sappenfield	Encana Oil & Gas (USA), Inc.
Pam Silberstein	FERC (non-voting)
Commissioner Timothy Simon	California Public Utility Commission
Rick Smead	Navigant Consulting, Inc.
James Stanzione	National Grid
Terence (Terry) Thorn	KEMA Gas Consulting Services
Sue Tierney (Co-Chair)	Analysis Group, Inc.
Kenneth L. Yeasting	Cambridge Energy Research Associates

APPENDIX C: COMMITTEE MEETING DATES

GAS-ELECTRIC HARMONIZATION COMMITTEE TIMELINE -- SCHEDULE OF MEETINGS AND DELIVERABLES

✓	Date/Time	Meeting	Deliverables
✓	January 27, 1:00 pm to 4:00 pm C	Conference Call & Web Cast Full Committee - Organizational	Introduction to the Committee
✓	February 15, 1:00 pm to 4:00 pm C	Conference Call & Web Cast Full Committee	Review Work Plan and Assignments
✓	March 1, 10:00 am to 1:00 pm C	Conference Call & Web Cast Team 2	Work on core issues for coordination of transactions
✓	March 1, 1:30 pm to 4:30 pm C	Conference Call & Web Cast Team 1	Work on core issues for transparency of information
✓	March 2, 1:30 pm to 4:30 pm C	Conference Call & Web Cast Team 3	Work on core issues on commercial/operational issues
✓	March 5, 1:30 pm to 2:30 pm C	Conference Call & Web Cast Leadership Team	Review work of the teams and determine direction
✓	March 16, 9:00 am to 10:00 am C	Conference Call & Web Cast Full Committee	Review work of the teams, revise and prepare for NAESB Board meetings
✓	March 20, 1:00 pm to 4:00 pm C	Conference Call & Web Cast Full Committee	Review work of the teams, revise and prepare for NAESB Board meetings
✓	March 22, 9:00 am to 1:00 pm C	NAESB Board Meeting, Houston	Review of Progress of Committee
✗	April 4, 1:00 pm to 4:00 pm (Cancelled)	Conference Call & Web Cast Full Committee	Review Work Plan and Assignments and Progress Made to date regarding formation of recommendation
✓	April 24, 10:00 am to 4:00 pm E	Meeting, Conference Call & Web Cast, Baltimore, MD Full Committee	Review Work Plan and Assignments and Progress Made to date regarding formation of recommendation, Discuss categories and prepare survey
✓	May 16, 1:00 pm to 4:00 pm C	Conference Call & Web Cast Full Committee	Review Work Plan and Assignments and Progress Made to date regarding formation of recommendations based on survey responses
✓	June 8, 10:00 am to 4:00 pm E	Meeting, Conference Call & Web Cast, Baltimore, MD Full Committee	Review Work Plan and Assignments and Progress Made to date regarding formation of recommendation
✓	June 19, 1:00 pm to 4:00 pm C	Conference Call & Web Cast Full Committee	Review Work Plan and Assignments and Progress Made to date regarding formation of recommendation
✓	June 21, 9:00 am to 1:00 pm C	NAESB Board Meeting, Houston	Review of Progress of Committee with Possible Board Vote to Approve Recommendations
✓	July 18, 1:00 pm to 4:00 pm C	Conference Call & Web Cast Full Committee	Review Work Plan and Assignments and Progress Made to date regarding formation of recommendations to the Board of Directors
✓	August 2, 10:00 am to 4:00 pm E	Meeting, Conference Call & Web Cast, Baltimore, MD Full Committee	Review Work Plan and Assignments and Progress Made to date regarding drafting recommendations to the Board of Directors
✓	August 27, 1:00 pm to 4:00 pm C	Conference Call & Web Cast Full Committee	Review Draft Report and Vote
	September 20, 9:00 am to 1:00 pm C	NAESB Board Meeting, Houston	Review of Progress of Committee with Possible Board Vote to Approve Recommendations

APPENDIX D: REFERENCE DOCUMENTS

NAESB Gas-Electric Harmonization Committee – Reference Documents

#	Document	Link
1.	MIT Study, The Future of the Electric Grid	http://web.mit.edu/mitei/research/studies/documents/electric-grid-2011/Electric_Grid_Full_Report.pdf
2.	MIT Study, The Future of Natural Gas	http://web.mit.edu/mitei/research/studies/documents/natural-gas-2011/NaturalGas_Report.pdf
3.	FERC-NERC Joint Task Force Report on Outages and curtailments During the Southwest Weather Event on February 1-5, 2011	http://www.ferc.gov/legal/staff-reports/08-16-11-report.pdf
4.	North American Natural Gas Midstream Infrastructure Through 2035: A Secure Energy Future Executive Summary Prepared by the INGAA Foundation	http://www.ingaa.org/File.aspx?id=14911
5.	Implications of Greater Reliance on Natural Gas For Electricity Generation Prepared For the American Public Power Association	http://www.publicpower.org/files/PDFs/ImplicationsOfGreaterRelianceOnNGforElectricityGeneration.pdf
6.	NAESB current Gas Nomination Standards and Gas-electric Coordination Standards	http://www.naesb.org/misc/geh_related_standards.docx
7.	Electricity Advisory Committee Interdependence of Electricity System Infrastructure and Natural Gas Infrastructure	http://www.naesb.org/misc/electric_infrastructure_gas_infrastructure_oct2011.pdf
8.	NERC 2011 Special Reliability Assessment: A Primer of the Natural Gas and Electric Power Interdependency in the United States – DUPLICATE OF ITEM 13	http://www.naesb.org/misc/nerc_primer_gas_electric_interdependency_nov2011.pdf
9.	NERC Gas/Electricity Interdependencies and Recommendations, 2004	http://www.naesb.org/misc/nerc_gas_electricity_interdependencies_2004.pdf
10.	NPC Prudent Development – Executive Summary (may be replaced by the published version – Ken Yeasting)	http://www.naesb.org/misc/npc_north_american_resource_dev_exec_summ_volume_dec2011.pdf
11.	NPC Prudent Development – Ch. 3 – Natural Gas Demand (may be replaced by the published version – Ken Yeasting)	http://www.naesb.org/misc/npc_demand_chapter_091511.pdf
12.	Excerpt of NAESB Bylaws	http://www.naesb.org/misc/naesb_bylaws_section2.2_best_practices.pptx
13.	NERC December 2011 Special Assessment - DUPLICATE OF ITEM 8	http://www.nerc.com/files/Gas_Electric_Interdependencies_Phase_I.pdf
14.	Natural Gas in a Smart Energy Future – American Gas Foundation, APGA Research Foundation, Canadian Gas Foundation, INGAA Foundation, Natural Gas Supply Foundation and their members	http://media.godashboard.com/gti/Natural_Gas_in_a_Smart_Energy_Future_01-26-2011.pdf
15.	Summary of the North American Energy Standards Board Gas and Electric Interdependency Final Report to the Federal Energy Regulatory Commission in Docket No. RM05-28-000 “NAESB Report on the Efforts of the Gas-Electric Interdependency Committee” – U.S. DoE and NARUC	http://www.naesb.org/misc/icf_geic_primer062206.pdf
16.	Nuclear Plant Interface Coordination – Standard NUC-001-2, NERC, April 2010	http://www.nerc.com/files/NUC-001-2.pdf
17.	Natural Gas year in Review – EIA, December 9, 2011	http://205.254.135.7/naturalgas/review/ , and http://205.254.135.7/naturalgas/review/print_version.cfm (print version)

APPENDIX D: REFERENCE DOCUMENTS

NAESB Gas-Electric Harmonization Committee – Reference Documents

#	Document	Link
18.	ERCOT Nodal Protocols	http://www2.econ.iastate.edu/tesfatsi/ERCOT.DefinitionsAcronyms.Oct2011.pdf
19.	Commission Role Regarding Environmental Protection Agency’s Mercury and Air Toxics Standards	http://www.ferc.gov/media/news-releases/2012/2012-1/01-30-12-notice.pdf
20.	How does the natural gas delivery system work – AGA web site	http://www.aga.org/Kc/aboutnaturalgas/consumerinfo/Pages/NGDeliverySystem.aspx
21.	Request for Comments of Commissioner Moeller, on Coordination between the Natural Gas and Electricity Markets, February 3, 2011	http://www.ferc.gov/about/com-mem/moeller/moellergaselectricletter.pdf
22.	Gas and Electric Infrastructure Interdependency Analysis, prepared for the Midwest ISO, February 22, 2012	https://www.midwestiso.org/Library/Repository/Communication%20Material/Key%20Presentations%20and%20Whitepapers/Natural%20Gas-Electric%20Infrastructure%20Interdependency%20Analysis_022212_Final%20Public.pdf
23.	Power Plants Likely Covered by the EPA Mercury and Air Toxics Rule, EPA, December 2011	http://www.epa.gov/mats/pdfs/20111221PowerPlantsLikelyCoveredbyMATS.pdf
24.	NARUC Inventory on Gas Curtailment Planning, Institute of Public Utilities and the US Department of Energy, April 2005	http://www.naruc.org/Publications/CIP_GasCurtailmentInventoryReport_8.pdf
25.	Federal Engagement in Standards Setting; Executive Office of the President Office of Science and Technology, Executive Office of the President Office of Management and Budget & Executive Office of the President United States Trade Representative, January 2012	http://www.naesb.org/pdf4/geh051612w3.docx
26.	Natural Gas White Paper Draft, ISO New England, July 2012	http://www.naesb.org/pdf4/geh080212w1.pdf



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Contact: Denise Rager, 713-356-0060
For Immediate Release: September 24, 2012

NAESB GAS-ELECTRIC HARMONIZATION COMMITTEE REPORT ADOPTED

On September 20, the NAESB Board of Directors unanimously adopted the Gas-Electric Harmonization Report. The report was spurred on by the gas-electric harmonization issues highlighted in the recent National Petroleum Council (NPC) report, “Prudent Development: Realizing the Potential of North America’s Abundant Natural Gas and Oil Resources,” issued late last year. The Board of Directors also agreed to place the three standards development recommendations from the report as provisional items for standards development on NAESB’s wholesale gas and wholesale electric annual plans. The three areas for development are: (1) market timelines and coordination of scheduling, (2) flexibility in scheduling, and (3) provision of information.

The basis of the report was 25 documents that yielded more than 80 observations related to gas-electric market harmonization. These observations were then categorized into issues related to capacity, curtailments, information sharing and scheduling. Each of the observations in the given categories were then identified as actionable for standards development, as framing for policy issues, or as most appropriate for market attention through inclusion in commercial agreements and regional practices.

The drafters of the report, the members of the NAESB Gas-Electric Harmonization Committee of the Board, comprise a broad cross section of natural gas and electric markets – state and federal regulators, pipelines, generators, producers, distribution, marketing, transmission, end users, independent system operators and technology experts. The committee was fortunate to have several of the key architects of the NPC report as members. NAESB has reached out to other groups that are also addressing harmonization issues, such as the North American Electric Reliability Corporation, to ensure that the activities are coordinated. All NAESB meetings, including those of this committee, are open to any interested party.

Ms. Valerie Crockett of the Tennessee Valley Authority, who serves as the prior Chairman of the NAESB Board of Directors, and co-chairs the Gas-Electric Harmonization Committee, has noted that “We are at a transformative time for the two markets and it is clear that the accelerating interdependencies of the markets should be recognized and supported. I am pleased that the NAESB organization has agreed to take part in this initiative along with several other organizations and fully support the report and its recommendations.”

Dr. Susan Tierney, Managing Principal of Analysis Group and Ms. Crockett’s co-chair for the committee added, “At a time when the nation’s natural gas resource is offering so many opportunities in the power sector, it is gratifying to see so many accomplished industry leaders willing to volunteer their time and expertise to identify courses of action to help improve the harmonization of the two markets. Many observers, including the NPC, have pointed out the challenges, and now it’s great to see this group exploring possible solutions. This report advances the consideration by market players of the actions to



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Page 2 of 2

be taken, and I hope it gets a broad reading by decision makers, managers and analysts in the many public and private sector organizations involved in the electric and natural gas industries.”

Mr. Michael Desselle of Southwest Power Pool and the current Chairman of the NAESB Board of Directors summarized with “I can think of no other organization in North America that is better represented by gas and electric leadership than NAESB to address and determine the need for market based standards and business practices addressing the interdependencies in the evolution of our respective gas and electric markets. Furthermore, NAESB’s leadership was and continues to be poised to assist the industry in identifying the policy-related matters to be resolved by public policy makers and regulators -- because of NAESB’s neutral advocacy requirement and diverse representation of electric and gas membership. I am grateful to all who participated in preparing this report – which helps to build a foundation from which actions can be determined and taken.”

The NAESB Gas-Electric Harmonization Report is posted on the NAESB web site and can be accessed from the following link: <http://www.naesb.org/pdf4/bd092012a1.pdf>.

The North American Energy Standards Board (NAESB) serves as an industry forum for the development and promotion of standards which will lead to a seamless marketplace for wholesale and retail natural gas and electricity, as recognized by its customers, business community, participants, and regulatory entities. It is composed of over three hundred corporate members in the energy industry and many more non-member volunteers who contribute to the drafting and adopting of NAESB standards. To learn more about NAESB, go to www.naesb.org, contact Denise Rager (drager@naesb.org) or call 713-356-0060.



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September 18, 2012
Filed Electronically

The Honorable Kimberly D. Bose
Secretary
Federal Energy Regulatory Commission
888 First Street N.E., Room 1A
Washington, D.C. 20585

RE: Standards for Business Practices of Public Utilities (Docket No. RM 05-5 et al)

Dear Ms. Bose:

The North American Energy Standards Board ("NAESB") herewith submits this report to the Federal Energy Regulatory Commission ("FERC" or "Commission") regarding NAESB's activities from February 2009 to July 2012 with respect to Version 003 of the NAESB Wholesale Electric Quadrant ("WEQ") standards. The NAESB WEQ Version 003 standards approved by the WEQ Executive Committee and ratified by the membership were published on July 31, 2012 and are referenced herein.¹ An executive summary of the changes which resulted in Version 003 is included in the attached report, along with a description of the standards that were created or modified as part of Version 003.

The standards in this submittal include modifications of existing standards or new standards to support FERC Order Nos. 890², 890-A³, 890-B⁴ and 890-C,⁵ including the standards to support Network Integration Transmission Service on Open Access Same-Time Information System (OASIS), the previously filed standards to support Service Across Multiple Transmission Systems (SAMTS)⁶, standards to support the Commissions policy regarding rollover rights for redirects on a firm basis, standards that incorporate the functionality for transmission providers to credit redirect requests with the capacity of the parent reservation and standards modifications to support consistency across the OASIS related standards. In addition to the standards modifications and development of new standards related to

¹ The NAESB standards referenced in this report are reasonably available to the public through multiple methods. To access the standards at no cost, NAESB will provide a limited copyright waiver for evaluation purposes using a product called Locked Lizard (<http://www.locklizard.com>). To request a waiver, please contact the NAESB office or follow the instructions in the following document: <http://www.naesb.org/pdf/ordrform.pdf>.

² Preventing Undue Discrimination and Preference in Transmission Service, Order No. 890, 72 FR 12,266 (March 15, 2007), FERC Stats. & Regs. ¶ 31,241 (2007) (Order No. 890).

³ Preventing Undue Discrimination and Preference in Transmission Service, Order No. 890, 72 FR 12, 266 (March 15, 2007), FERC Stats. & Regs. ¶ 31, 241, order on reh'g, Order No. 890-A, 73 FR 2,984 (January 16, 2008), FERC Stats. & Regs. ¶ 31,261 (2007) (Order No. 890-A).

⁴ Preventing Undue Discrimination and Preference in Transmission Service, Order No. 890, 72 FR 12, 266 (March 15, 2007), FERC Stats. & Regs. ¶ 31, 241, order on reh'g, Order No. 890-A, 73 FR 2,984 (January 16, 2008), FERC Stats. & Regs. ¶ 31,261 (2007), order on reh'g, Order No. 890-B, 123 FERC ¶ 61,299 (2008) (Order 890-B).

⁵ Preventing Undue Discrimination and Preference in Transmission Service, Order No. 890, 72 FR 12, 266 (March 15, 2007), FERC Stats. & Regs. ¶ 31, 241, order on reh'g, Order No. 890-A, 73 FR 2,984 (January 16, 2008), FERC Stats. & Regs. ¶ 31,261 (2007), order on reh'g, Order No. 890-B, 123 FERC ¶ 61,299 (2008), order on reh'g and clarification, Order No. 890-C, 126 FERC ¶ 61,228 (2009) (Order No. 890-C).

⁶ Submittal for NAESB Standards Development to Support Coordination of Requests for Transmission Service Across Multiple Transmission Systems (Docket No. RM05-5-013, Order No. 676-E), available at: http://www.naesb.org/pdf4/ferc_100711_samts.pdf (submitted October 17, 2011). Minor Corrections, available at: http://www.naesb.org/pdf4/ferc_012512_weq_minor_corrections_samts.pdf (submitted January 25, 2012).



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September 18, 2012

FERC Order No. 890, modifications were made to the set of OASIS Business Practice Standards to support FERC Order Nos. 676,⁷ 676-A,⁸ 676-E⁹ and 717¹⁰ and for the purpose of consistency.

Standards included in this submittal that are not related to the OASIS set of standards include, modifications to the Coordinate Interchange standards to compliment the updates to the e-Tag specification,¹¹ modifications to the Gas/Electric Coordination standards to provide consistency between the two markets and a standard set of terms, definitions and acronyms applicable to all NAESB WEQ standards. The report also includes standards for Demand Side Management and Energy Efficiency, as previously filed with the Commission on April 17, 2009¹² and April 30, 2011¹³ and the Smart Grid related standards previously filed with the Commission on July 7, 2011.¹⁴

The development efforts in NAESB reflect the work of multiple market interests. In addition, the NAESB WEQ has worked in close coordination with NERC on business practice standards that are complementary to NERC reliability standards so that the standards for both organizations remain in lock-step for consistency in the wholesale electric industry. The inter-organization collaborations are not only permitted in the NAESB process, but strongly encouraged – to provide an environment in which standards development has a more diverse vetting in the industry and a resulting broader acceptance and application.

Some of the standards development activity undertaken that produced Version 003 had considerable industry debate before an agreement was reached on the level of standardization needed and the actual text of the standards themselves. The NAESB process supports a wide range of perspectives, and through a public process permitting all segments of the marketplace to voice equally their issues, balanced voting allows a disparate group to move towards consensus.

All requests for new standards or modifications of existing standards and requests for interpretation are posted on the NAESB home page. All work papers and recommendations from subcommittees and task forces regarding the requests are also posted on the NAESB home page (www.naesb.org). Participation in the task forces and subcommittees, where requests are addressed and recommended standards are formulated and voted out of

⁷ Standards for Business Practices and Communication Protocols for Public Utilities, Order No. 676, FERC Stats. & Regs. ¶ 31,216, (2006) (Order No. 676)

⁸ Standards for Business Practices and Communication Protocols for Public Utilities, Order No. 676, FERC Stats. & Regs. ¶ 31,216, (2006), reh'g denied, Order No. 676-A, 116 FERC ¶ 61,255 (2006) (Order No. 676-A).

⁹ Standards for Business Practices and Communication Protocols for Public Utilities, Order No. 676, FERC Stats. & Regs. ¶ 31,216, (2006), reh'g denied, Order No. 676-A, 116 FERC ¶ 61,255 (2006), Order No. 676-B, Final Rule, FERC Stats. & Regs. ¶ 31,246 (2007), Order No. 676-C, Final Rule, FERC Stats. & Regs. ¶ 31,274 (2008), Order No. 676-D, order granting clarification and denying reh'g, 124 FERC ¶ 61,317 (2008), Order No. 676-E, Final Rule, 74 FR 63,288 (Dec. 3, 2009), FERC Stats. & Regs. ¶ 31,299 (2009) (Order No. 676-E).

¹⁰ Standards of Conduct for Transmission Providers, Order No. 717, 73 FR 63,796 (Oct. 27, 2008), FERC Stats. & Regs. ¶ 31,280 (2008) (Order No. 717).

¹¹ NAESB WEQ Electronic Tagging – Functional Specifications, Version 1.8.1, *available at*: http://www.naesb.org/member_login_check.asp?doc=weq_etag_specification_v181_102709_mc062311.pdf. This document is password protected. Non-members should contact the NAESB office to access this document.

¹² NAESB Report on Wholesale Electric Market Measurement and Verification Standards for Demand Response Products and Services, Docket No. RM05-5-000, *available at* http://naesb.org/pdf4/ferc041709_dsm_filing.pdf (April 17, 2009).

¹³ Submittal for Measurement and Verification of Demand Response Products, Docket No. RM-05-5-000, *available at* http://www.naesb.org/pdf4/ferc_043011_weq_demand_response_standards.pdf (April 30, 2011).

¹⁴ Submittal of Smart Grid Related Standards, Docket No. RM05-5-000, et al, *available at* http://naesb.org/pdf4/ferc_070711_smartgrid_standards.pdf (July 7, 2011).



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September 18, 2012

committee, is open to any interested party regardless of membership. Should a participant be unable to attend a meeting where a request of interest is discussed, the party may prepare written comments, which will be posted as work papers for the subcommittee or task force.

The Executive Committee meetings where these standards were discussed and adopted took place from February 2009 to May 2012. The minutes of these meetings are provided as links, which include the voting records of the Executive Committee. The ratification ballots and member ratification voting record results are also included as links. All comments that were filed on the standards as part of the NAESB formal comment period are also included as links.

The cover letter, report and enclosures are being filed electronically in Adobe Acrobat® Print Document Format (.pdf), with each enclosure bookmarked separately. The filing is also available on the NAESB web site (www.naesb.org). Please feel free to call me at (713) 356-0060 or refer to the NAESB website (www.naesb.org) should you have any questions or need additional information regarding the NAESB WEQ Version 003 standards.

Respectfully submitted,

Rae McQuade

Ms. Rae McQuade
President & COO, North American Energy Standards Board

cc without enclosures:

- Chairman Jon Wellinghoff, Federal Energy Regulatory Commission
- Commissioner, Tony Clark, Federal Energy Regulatory Commission
- Commissioner, Cheryl LaFleur, Federal Energy Regulatory Commission
- Commissioner Philip D. Moeller, Federal Energy Regulatory Commission
- Commissioner John Norris, Federal Energy Regulatory Commission

- Mr. Joseph McClelland, Director, Office of Electric Reliability, Federal Energy Regulatory Commission
- Mr. Michael Bardee, General Counsel of the Commission, Federal Energy Regulatory Commission

- Mr. Mason Emmett, Associate Director, Office of Energy Policy and Innovation, Federal Energy Regulatory Commission
- Mr. Michael Goldenberg, Senior Attorney, Office of General Counsel, Federal Energy Regulatory Commission
- Ms. Jamie L. Simler, Director, Office of Energy Policy and Innovation, Federal Energy Regulatory Commission

- Mr. Michael Desselle, Chairman and CEO, North American Energy Standards Board
- Mr. William P. Boswell, General Counsel, North American Energy Standards Board

- Mr. Charles Berardesco, General Counsel, North American Electric Reliability Corporation
- Mr. David Taylor, Director of Standards Regulatory Initiatives, North American Electric Reliability Corporation



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September 18, 2012

Enclosures (all documents and links available publicly on the NAESB web site – www.naesb.org):

- Appendix A Executive Committee Meeting Minutes, Comments and Voting Records Links
- Appendix B Ratification Ballots and Results Links
- Appendix C List of Available Meeting Transcripts
- Appendix D Cross Reference of Business Practice Standards Adopted in Version 003 to FERC Action on those Business Practice Standards
- Appendix E NAESB Process for Standards Development
- Appendix F 2008 WEQ Annual Plan
- Appendix G 2009 WEQ Annual Plan
- Appendix H 2010 WEQ Annual Plan
- Appendix I 2011 WEQ Annual Plan
- Appendix J 2012 WEQ Annual Plan
- Appendix K Minor Corrections Applied for Versions 002.1 and 003

Report of the North American Energy Standards Board
Version 003 of the NAESB Wholesale Electric Quadrant Business Practice Standards
September 18, 2012

**UNITED STATES OF AMERICA
FEDERAL ENERGY REGULATORY COMMISSION**

Standards for Business Practices and)	Docket No. RM 05-17-000
Communication Protocols for)	Docket No. RM 05-5-000
Public Utilities)	Docket No. RM 07-1-000

REPORT OF THE NORTH AMERICAN ENERGY STANDARDS BOARD

The North American Energy Standards Board ("NAESB") is voluntarily submitting this report in accordance with the Federal Energy Regulatory Commission's ("FERC" or "Commission") Order Nos. 890,¹ 890-A,² 890-B,³ 890-C,⁴ 676,⁵ 676-A,⁶ 676-E⁷ and 717⁸ in the above referenced docket. The report includes a summary of the changes that resulted in Version 003 of the wholesale electric quadrant standards, along with a list of the standards that were created or modified as part of Version 003 - cross-referenced both by request number and by version. The standards can be downloaded from the NAESB home page (www.naesb.org).

In January 2002, the Gas Industry Standards Board ("GISB") became the Wholesale Gas Quadrant (WGQ) of NAESB and three other quadrants were formed, the Wholesale Electric Quadrant (WEQ), the Retail Gas Quadrant, and Retail Electric Quadrant. NAESB WEQ Version 0 standards⁹ were adopted by the WEQ and

¹ Preventing Undue Discrimination and Preference in Transmission Service, Order No. 890, 72 FR 12,266 (March 15, 2007), FERC Stats. & Regs. ¶ 31,241 (2007) (Order No. 890).

² Preventing Undue Discrimination and Preference in Transmission Service, Order No. 890, 72 FR 12, 266 (March 15, 2007), FERC Stats. & Regs. ¶ 31, 241, order on reh'g, Order No. 890-A, 73 FR 2,984 (January 16, 2008), FERC Stats. & Regs. ¶ 31,261 (2007) (Order No. 890-A).

³ Preventing Undue Discrimination and Preference in Transmission Service, Order No. 890, 72 FR 12, 266 (March 15, 2007), FERC Stats. & Regs. ¶ 31, 241, order on reh'g, Order No. 890-A, 73 FR 2,984 (January 16, 2008), FERC Stats. & Regs. ¶ 31,261 (2007), order on reh'g, Order No. 890-B, 123 FERC ¶ 61,299 (2008) (Order No. 890-B).

⁴ Preventing Undue Discrimination and Preference in Transmission Service, Order No. 890, 72 FR 12, 266 (March 15, 2007), FERC Stats. & Regs. ¶ 31, 241, order on reh'g, Order No. 890-A, 73 FR 2,984 (January 16, 2008), FERC Stats. & Regs. ¶ 31,261 (2007), order on reh'g, Order No. 890-B, 123 FERC ¶ 61,299 (2008), order on reh'g and clarification, Order No. 890-C, 126 FERC ¶ 61,228 (2009) (Order No. 890-C).

⁵ Standards for Business Practices and Communication Protocols for Public Utilities, Order No. 676, FERC Stats. & Regs. ¶ 31,216, (2006) (Order No. 676)

⁶ Standards for Business Practices and Communication Protocols for Public Utilities, Order No. 676, FERC Stats. & Regs. ¶ 31,216, (2006), reh'g denied, Order No. 676-A, 116 FERC ¶ 61,255 (2006) (Order No. 676-A).

⁷ Standards for Business Practices and Communication Protocols for Public Utilities, Order No. 676, FERC Stats. & Regs. ¶ 31,216, (2006), reh'g denied, Order No. 676-A, 116 FERC ¶ 61,255 (2006), Order No. 676-B, Final Rule, FERC Stats. & Regs. ¶ 31,246 (2007), Order No. 676-C, Final Rule, FERC Stats. & Regs. ¶ 31,274 (2008), Order No. 676-D, order granting clarification and denying reh'g, 124 FERC ¶ 61,317 (2008), Order No. 676-E, Final Rule, 74 FR 63,288 (Dec. 3, 2009), FERC Stats. & Regs. ¶ 31,299 (2009) (Order No. 676-E).

⁸ Standards of Conduct for Transmission Providers, Order No. 717, 73 FR 63,796 (Oct. 27, 2008), FERC Stats. & Regs. ¶ 31,280 (2008) (Order No. 717).

⁹ NAESB Version 000 standards in Response to FERC Order No. 890, Docket Nos. RM05-25-000 and RM05-17-000, *available at* http://www.naesb.org/member_login_form.asp?doc=ferc011805_report.pdf (submitted January 18, 2005). This document is password protected. Non-members should contact the NAESB office to access this document.

published on January 15, 2005. NAESB WEQ Version 1 standards¹⁰ were adopted by the WEQ and published on October 31, 2007 and subsequently filed with the Commission on December 21, 2007. NAESB WEQ Version 002 standards¹¹ were adopted by the WEQ and filed with the Commission on August 29, 2008 and subsequently published on September 30, 2008. NAESB WEQ Version 002.1 standards¹² were adopted by the WEQ and filed with the Commission on February 19, 2009 and subsequently published on March 11, 2009.

There are eleven enclosures supporting the report. Provided in Appendix A is a list of the links to the minutes from the Executive Committee ("EC") meetings during which recommendations were considered that resulted in Version 003 of the NAESB WEQ standards. The EC minutes include discussion of recommendations from task forces and subcommittees, which ultimately resulted in the standards for Version 003. The EC voting records are attached as part of the minutes. Also included in Appendix A is the list of links to all comments filed on the standards that were recommended for adoption to the EC. Provided in Appendix B is the list of links to the NAESB membership ratification ballots, which include the EC adopted recommendations that are the basis for the Version 003 modifications. Also provided in this appendix is the list of links to the ratification results. Appendix C provides the list of available transcripts. Provided in Appendix D, is a cross reference of the standards adopted as part of Version 003 and filed with the Commission and the subsequent Commission action on those standards. Appendix E provides an overview of the NAESB process by which the standards were adopted. Appendices F, G, H, I, and J contain the 2008 - 2012 WEQ Annual Plans respectively, and Appendix I includes the references to the minor corrections that were applied and referenced in Version 002.1 and Version 003.

This report is intended solely as a status report from NAESB regarding Version 003 of its standards. NAESB does not advocate that the Commission take a particular position on any of the standards presented.

VERSION 003 SUMMARY

Presented here is a summary of the activities that led to the compilation of the NAESB Wholesale Electric Quadrant (WEQ) Standards Version 003. All references in this summary pertain only to the WEQ. Supporting documents can be found in Appendices A, B, C, D, E, F, G, H, I, J and K as enclosures to this report. All Version 003 standards that were added or modified are contained in a table following this summary. The table cross references the standards to the related requests for development and the actions that were taken.

A number of standards included in the WEQ Version 003 publication have been submitted to the Commission in previous reports or are the subject of Commission action including the standards to support Service Across Multiple Transmission Systems (SAMTS), the Smart Grid related standards, phase two of the Measurement and Verification of Wholesale Electricity Demand Response standards and the standards to support Measurement

¹⁰ NAESB Version 001 Standards in Response to FERC Order No. 890, Docket Nos. RM05-17-000 and RM05-25-000, *available at* http://www.naesb.org/member_login_form.asp?doc=ferc122107.pdf (submitted December 21, 2007). This document is password protected. Non-members should contact the NAESB office to access this document.

¹¹ NAESB Version 002 Standards in Response to FERC Order No. 890, Docket Nos. RM05-25-000 and RM05-17-000, *available at* http://naesb.org/pdf3/ferc082908_order_890_filing.pdf (submitted August 29, 2008). This document is password protected. Non-members should contact the NAESB office to access this document.

¹² NAESB Version 002.1 Standards in Response to FERC Order No. 890, Docket No. RM05-5 et al, *available at* http://www.naesb.org/pdf4/ferc021909_weq_v002.1_with_appendices.pdf (submitted February 19, 2009). This document is password protected. Non-members should contact the NAESB office to access this document

and Verification of the Energy Efficiency Products. As such, references to the status of all standards included in this report are made as to whether they have been provided to the Commission as a part of other reports or if they are subject of Commission action.

Five standards included in the report were developed in response to FERC Order No. 890 including the previously filed standards to support SAMTS,¹³ part two of the standards modifications to the WEQ-001-9.7 Business Practice Standard requested in FERC Order No. 890-A¹⁴ related to rollover rights to requests for redirect on a firm basis, the WEQ-001-10.3.1.1 and WEQ-001-9.1.3.1 Business Practice standards which provide for transmission providers to process redirect requests in a manner in which the request would receive a credit for the available transfer capability encumbered by the parent reservation, standards to support Network Integration Transmission Service on the Open Access Same-Time Information System (OASIS) and standards modifications to support consistency across the NAESB OASIS standards.

In addition to the OASIS standards modified or developed in response FERC Order No. 890, three additional standards modification efforts were undertaken by the OASIS Subcommittee that have an impact on the OASIS standards. Modifications to the WEQ-013-2.6.81 and WEQ-013-2.6.82 Business Practice Standards were made to clarify the listing of service types, modifications to the WEQ-001-14.1.3 and WEQ-001-15.1.2 Business Practice Standards regarding the timing of posting of narratives, and modifications to several of the WEQ-001, WEQ-002 and WEQ-003 Business Practice Standards in response to FERC Order No. 717 concerning standards of conduct posting requirements.

A development effort to modify the Coordinate Interchange (WEQ-004) standards by the Joint Electric Scheduling Subcommittee (JESS), a standing joint subcommittee made of both NERC and NAESB participants tasked with the maintenance of the coordinate interchange business practice standards and reliability standards, was undertaken to modify the WEQ-001, WEQ-003, WEQ-004 and WEQ-013 Business Practice Standards in coordination with revisions made to the Electronic Tagging Functional Specification.¹⁵ Additional modifications were made to the WEQ-004 standards to support the development of the Abbreviations, Acronyms and Definition of Terms standards (WEQ-000) and to provide consistency across all WEQ standards.

Similar modifications to support the consistency of the WEQ standards were made to the Gas/Electric Coordination standards in addition to modifications to the harmonize cross quadrant terms and definitions contained within the standard. These changes were also coordinated with terms contained in the NERC Glossary.

Also included in the WEQ Version 003 publication and referenced in this report, are the standards developed to support Smart Grid applications and the measurement and verification of Demand Response (DR) and

¹³ Submittal of NAESB Standards Development to Support Coordination of Requests for Transmission Service Across Multiple Transmission Systems (Docket No. RM05-5-013, Order No. 676-E), available at: http://www.naesb.org/pdf4/ferc_100711_samts.pdf (submitted October 7, 2011). Minor Corrections available at: http://www.naesb.org/pdf4/ferc_012512_weq_minor_corrections_samts.pdf (submitted January 25, 2012).

¹⁴ NAESB WEQ Business Practices Standards Crediting Redirect Requests with the Capacity of the Parent Reservation, available at: http://www.naesb.org/member_login_check.asp?doc=pd_weq_ec022112a6.docx. This document is password protected. Non-members should contact the NAESB office to access this document.

¹⁵ NAESB WEQ Electronic Tagging – Functional Specifications, Version 1.8.1, available at: http://www.naesb.org/member_login_check.asp?doc=weq_etag_specification_v181_102709_mc062311.pdf. This document is password protected. Non-members should contact the NAESB office to access this document.

Energy Efficiency (EE) products. These standards were the subject of a previous NAESB report or are the subject of Commission action.¹⁶

Finally, included in this report is an interpretation of the WEQ-001-9.1 and WEQ-001-10.1 Business Practice Standards and the results of a quadrant wide effort to provide a common location for all abbreviations, acronyms and definitions of terms that created the WEQ-000 Business Practice Standards and addressed both internal inconsistencies and inconsistencies with the NERC Glossary.

As with most NAESB standards development of this magnitude, some of the standards development activity undertaken that produced Version 003 had considerable industry debate before an agreement was reached on the level of standardization needed and the actual text of the standards themselves. The NAESB process supports a wide range of perspectives, and through a public process permitting all segments of the marketplace to voice equally their issues, balanced voting allows a disparate group to move towards consensus.

The summary is organized into ten sections: FERC Order No. 890 related standards, OASIS standards not related to FERC Order No. 890, FERC Order No. 717 related standards, Coordinate Interchange standards, Gas/Electric Coordination standards, Smart Grid related standards, Demand Side Management and Energy Efficiency standards, standards related to Terms, Definitions and Acronyms, Interpretations, and items identified for NAESB standards development for which NAESB has decided no standards development is necessary. Descriptions of each grouping are shown below:

FERC Order No. 890 Related Standards

Standards subject of a previous report to the Commission or action by the Commission

NAESB is submitting one FERC Order No. 890 related standard that has been the subject of a previous report submitted to the Commission or the subject of action by the Commission. It is described below.

In response to paragraph 1377 of FERC Order No. 890 requesting “transmission providers work through NAESB to develop business practice standards related to the coordination of requests across multiple transmission systems,”¹⁷ the OASIS Subcommittee developed and the NAESB WEQ adopted standards that provide a process by which a customer may complete a cross-regional transaction. The Service Across Multiple Transmission System (SAMTS) standards were previously filed with the Commission on October 7, 2011 and are included in the Version 003 publication.¹⁸ The standards require that each affected provider independently evaluate its portion of the linked request with the opportunity for reconciliation by the customer once all evaluations are complete. After submitting and monitoring requests on multiple systems, the customer can communicate reconciled information to each of the affected providers. The SAMTS standards focus exclusively on the coordination of point-to-point transmission service and/or network transmission service requests across multiple transmission systems. The SAMTS process modifies and adds standards or terms to the Abbreviations, Acronyms and Definition of Terms (WEQ-000), the

¹⁶ Submittal of Smart Grid Related Standards (Docket No. RM05-5-000, et al.), *available at*: http://www.naesb.org/pdf4/ferc_070711_smartgrid_standards.pdf (submitted July 7, 2011).

NAESB Report on Wholesale Electric Market Measurement and Verification Standards for Demand Response Products and Services, Docket No. RM05-5-000, *available at* http://naesb.org/pdf4/ferc041709_dsm_filing.pdf (April 17, 2009).

OASIS Business Practice Standards (WEQ-001), the OASIS Standards and Communication Protocols (WEQ-002), the OASIS Data Dictionary (WEQ-003), and the OASIS Implementation Guide (WEQ-013).

An Executive Committee Task Force was created for the purpose of establishing the scope of the SAMTS standards effort and met nine times from March 2010 to June 2010. The scope, as defined by the task force, was approved by the WEQ EC on August 17, 2010 and amended on February 1, 2011. After receiving guidance from the WEQ EC Task Force, the standards were developed through fourteen OASIS Subcommittee meetings held from January 2011 to June 2011. The recommended standards were approved by the OASIS Subcommittee on May 5, 2011. The recommendation was sent out for a thirty-day industry comment period on May 11, 2011 and ended on June 10, 2011. A substantive and technical review of the proposed standards by the WEQ EC was held on May 20, 2011 to help provide guidance for industry participants submitting comments. The WEQ EC met to consider the recommendation and the comments received on June 30, 2011. The vote on the recommended standards was inconclusive, so a notational ballot was sent out to the WEQ EC members that were not present to vote at the meeting. Through notational ballots due on July 8, 2011, the EC approved the recommendation and the standards were ratified by the WEQ membership on August 11, 2011.

Standards not subject of a previous report to the Commission or action by the Commission

In the WEQ Version 003 publication of standards, NAESB includes four sets of standards related to FERC Order No. 890 that have not been the subject of a previous report submitted to the Commission by NAESB or the subject of action by the Commission. The sets of standards are described below.

- 1) The first set of standards embodies the second part of a two-part process to address revisions to the WEQ-001-9.7 Business Practice Standard.¹⁹ In paragraph no. 52 of FERC Order No. 676, the Commission declined to adopt the WEQ-001-9.7 Business Practice Standard, filed as part of the WEQ Version 000 publication, concluding the standard was “inconsistent with the pro forma OATT and the Commission’s policies” on the treatment of rollover rights for requests to redirect on a firm basis and allowed the WEQ to reconsider and adopt a revised version of the standard.²⁰ The Commission provided guidance to NAESB regarding the Commission’s policy on rollover rights in FERC Order Nos. 676,²¹ 676-A,²² 890²³ and 890-A.²⁴ In addition to the guidance provided through the FERC orders, a written clarification was provided to NAESB by Commission staff regarding rollover rights under the pro forma OATT.²⁵ Using this guidance,

¹⁷ Order No. 890 at ¶ 1377.

¹⁸ Submittal of NAESB Standards Development to Support Coordination of Requests for Transmission Service Across Multiple Transmission Systems (Docket No. RM05-5-013, Order No. 676-E), available at: http://www.naesb.org/pdf4/ferc_100711_samts.pdf. Minor Corrections, available at: http://www.naesb.org/pdf4/ferc_012512_weq_minor_corrections_samts.pdf (submitted January 25, 2012).

¹⁹ Part I is filed as part of NAESB Version 002.1 Standards. See footnote 7.

²⁰ Order No. 676 at ¶ 52.

²¹ Id. at ¶ 51 – 61.

²² Order No. 676-A at ¶ 5 – 8.

²³ Order No. 890 at ¶ 1280 – 1282.

²⁴ Order No. 890-A at ¶ 697, 698 and 704 – 708.

²⁵ See Rollover of Redirects FERC Staff Interpretation of OATT, available at http://www.naesb.org/pdf4/weq_ec010809w5.doc. And Rollover of Redirects FERC Staff Follow-up Response, available at http://www.naesb.org/pdf4/weq_ec010809a1.doc

the OASIS Subcommittee modified the WEQ-001-9.7 Business Practice Standard in an effort to align NAESB business practice standards with the FERC policy pertaining to the grant of rollover rights to requests for redirect on a firm basis. Additionally, the subcommittee added examples for the conveyance of rollover rights with a redirect on a firm basis to Appendix B of the WEQ-001 standards, modified the WEQ-001-9 Business Practice Standards, modified the definition of Unexercised Rollover Rights and added a definition for Capacity Eligible for Rollover. Corresponding modifications were also made to the WEQ-001, WEQ-002 and WEQ-013 Business Practice Standards. These modifications complete a two-part process to address the WEQ-001-9.7 Business Practice Standard as described in the report that provided the WEQ Version 002.1 publication of standards.²⁶ The OASIS Subcommittee met five times over the course of ten days to develop a recommendation. The recommendation passed a subcommittee vote on April 9, 2009 and was sent out for a thirty-day comment period on April 13, 2009. The WEQ EC adopted the recommendation on June 8, 2009, and the recommendation was ratified on July 27, 2009.

- 2) Second, on February 21, 2012, the WEQ EC approved the addition of the WEQ-001-10.3.1.1 and WEQ-001-9.1.3.1 Business Practice Standards to provide functionality in the standards for transmission providers to process redirect requests in a manner in which the request would receive a credit for the available transfer capability encumbered by the parent reservation to the extent that available transfer capability was needed to enable service to the redirect request. The OASIS Subcommittee crafted the modifications to avoid an implementation that could result in a violation of the first come, first served principle of queue priority. The subcommittee drafted and voted out the recommendation on January 25-26, 2012. The recommendation was adopted by the WEQ EC Committee on February 21, 2012, and was ratified by membership on March 26, 2012.
- 3) Next, in response to FERC Order Nos. 890²⁷, 890-A²⁸, 890-B²⁹ and 890-C³⁰, the WEQ EC adopted business practice standards to support the OASIS functionality associated with NITS on May 1, 2012. In paragraph no. 385 of FERC Order No. 890, the Commission ordered “public utilities, working through NAESB, to develop appropriate templates for OASIS” in order to use the system to “request designation of new network resources and to terminate designation of network resources.”³¹ Paragraph no. 1477 of FERC Order No. 890 directed “transmission providers to work in conjunction with NAESB to develop business practice standards describing procedural requirements for submitting designations over any new OASIS functionality.”³² In response to FERC Order No. 890 and subsequent FERC Orders, the WEQ OASIS Subcommittee began the effort in February 2007 to develop new standards and templates that support applications for network service on the OASIS system. The standards provide functionality for:

²⁶ See footnote 12.

²⁷ Order No. 890 at ¶ 385, 1377, 1477, 1504, 1532 and 1541.

²⁸ Order No. 890-A at ¶ 919.

²⁹ Order No. 890-B at ¶ 182, 188 and 209.

³⁰ Order No. 890-C at ¶ 17.

³¹ Order No. 890 at ¶ 385.

³² Order No. 890 at ¶ 1477.

- transmission providers to handle requests (loads, designation network resource, non-designated resources) on a customer-by-customer basis,
- the optionality of tracking designated network resource scheduling rights, and
- the customers to assign agents to administer OASIS transactions on their behalf.

The recommendation proposed new standards and modifications to standards that affect the WEQ-000, WEQ-001, WEQ-002 and WEQ-003 Business Practice Standards. In addition, narrative examples and process diagrams were added to the WEQ-013 Business Practice Standards to assist users in their implementation efforts.

To develop the recommendation, the OASIS Subcommittee met ninety-seven times over one-hundred and sixty-eight days over the course of five years. The recommendation passed a subcommittee vote on December 1, 2011 and was sent out for an extended seventy-five day industry comment period on December 13, 2011. Given the magnitude of the number of standards developed or modified as part of the recommendation and the impact NITS has on the OASIS standards, a single topic review session was held on January 24, 2012 by the WEQ EC to facilitate discussion between the subject matter experts and industry participants developing comments regarding the recommendation. In response to the large number of comments received on the recommendation, a series of OASIS Subcommittee meetings were held to allow the subcommittee to review and respond to the comments in preparation for WEQ EC consideration. The recommendation was adopted during a two-day WEQ EC meeting held on April 30, 2012 and May 1, 2012 and ratified by the membership on June 11, 2012.

- 4) Finally, while working on efforts to satisfy FERC directives related to FERC Order No. 890, the WEQ OASIS Subcommittee developed a recommendation proposing modifications to the introduction sections and adding applicability sections to the OASIS standards where necessary for consistency. The introduction section of the standards provides a brief description of the purpose of the standard, while the applicability section provides the entities that are impacted by the standard. In addition, the recommendation proposed modifications to the organization and the structure of WEQ-001 and WEQ-013 for consistency. The OASIS Subcommittee met twice over five days to address this item. The recommendation developed by the subcommittee passed a subcommittee vote on August 4, 2011 and was sent out for a thirty-day industry comment period on August 9, 2011. The WEQ EC adopted the recommendation on October 25, 2011 and was ratified by the membership on November 28, 2011.

OASIS Standards not Related to FERC Order No. 890

Standards not subject of a previous report to the Commission or action by the Commission

In the WEQ Version 003 publication of standards, NAESB includes three sets of OASIS standards not related to FERC Order No. 890 that have not been the subject of a previous report submitted to the Commission or the subject of action by the Commission. They are described below.

- 1) First, the OASIS Subcommittee proposed modifications to the WEQ-013-2.6.8.1 and WEQ-013-2.6.8.2 standards. The minor modifications clarify that the listings of service types within the parentheses are intended to be examples and not definitive. The OASIS Subcommittee met twice over three days to address the issue. The recommendation developed by the subcommittee passed a subcommittee vote on February 9, 2012 and was sent out for a thirty-day industry comment period on February 21, 2012. The recommendation was adopted by the WEQ EC on May 1, 2012 and was ratified on June 11, 2012.
- 2) Second, on October 25, 2011, the WEQ EC modified its business practice standards in response to FERC Order Nos. 890 and 676-E. In paragraph no. 221 of FERC Order No. 890, the Commission specifically requested that NAESB seek to develop business practice standards governing the terms and conditions of conditional firm service and the posting requirement for available transfer capability.³³ In paragraph no. 38 of FERC Order No. 676-E, the Commission adopted the WEQ-001-14 standards for Zero ATC Narrative and the WEQ-001-15 standards for ATC Change Narrative, with the exception of the WEQ-001-14.1.3 standard and the WEQ-001-15.1.2 standard.³⁴ The Commission declined to adopt the standards, stating in paragraph no. 39 of FERC Order No. 676-E “[t]ransmission providers must post their narratives as soon as feasibly possible. Posting within one day would appear in most cases to be reasonable.”³⁵ In response, the OASIS Subcommittee modified the business practice standards to comply with FERC direction by recommending that narratives be posted within one business day and requiring a posting within five business days. The recommendation was developed by the subcommittee over the course of two meetings, spanning five days and passed a subcommittee vote on August 2, 2011. The recommendation was sent out for a thirty-day industry comment period on August 9, 2011 and the WEQ EC adopted the recommendation during the October 25, 2011 meeting. The recommendation was ratified on November 28, 2011.
- 3) In FERC Order No. 717 issued on October 16, 2008, the Commission made several modifications related to the posting requirements associated with the standards of conduct.³⁶ Specifically, the Commission discontinued the requirement for public utilities to post standards of conduct information on OASIS.³⁷ In response, the Business Practice Subcommittee modified the WEQ-001, WEQ-002 and WEQ-003 Business Practice Standards to remove reference to the standards of conduct related obligations with the exception of a few template structures that may be implemented at the option of the transmission provider. To develop the recommendation, the subcommittee held two meetings on February 9, 2009 and March 9, 2009 and voted the recommendation out of subcommittee on March 23, 2009. On May 12, 2009 the WEQ EC considered the recommendation and voted to adopt the modifications. The modifications were ratified by the NAESB membership on June 15, 2009.

³³ Order No. 890 at ¶ 221.

³⁴ Order No. 676-E at ¶ 38.

³⁵ Id. at ¶ 39.

³⁶ Order No. 717 at ¶213 – ¶218 and ¶235 – ¶239.

³⁷ Id.

Coordinate Interchange Standards

Standards not subject of a previous report to the Commission or action by the Commission

In the WEQ Version 003 publication of standards, NAESB includes one Coordinate Interchange related standard that has not been the subject of a previous report submitted to the Commission or the subject of action by the Commission. It is described below.

On October 27, 2009, the WEQ EC adopted modifications to the WEQ-001, WEQ-003, WEQ-004 and WEQ-0013 Business Practice Standards. The modifications proposed by the Joint Electric Scheduling Subcommittee (JESS) to the WEQ-004 Business Practice Standards were completed to ensure that the standards are consistent with revisions made to the Electronic Tagging Functional Specification³⁸ during the update from Version 1.8 to Version 1.8.1 and incorporated a guideline for rounding schedules with partial megawatt hours. The guideline standardizes the rounding of partial megawatt hours schedules. The JESS also made conforming modifications to the WEQ-001, WEQ-003 and WEQ-013 Business Practice Standards and removed the definitions from the WEQ-004 Business Practice Standards as part of an effort to relocate all definitions the WEQ-000 Business Practice Standards. To develop the recommendation, the JESS met five times over the course of nine days and voted the recommendation out of subcommittee on September 2, 2009. It was distributed for a thirty-day comment period on September 9, 2009. The recommendation was adopted by the WEQ EC on October 27, 2009 and was ratified by the membership on December 14, 2009.

Gas/Electric Coordination Standards

Standards not subject of a previous report to the Commission or action by the Commission

In the WEQ Version 003 publication of standards, NAESB includes one standard related to Gas/Electric Coordination that has not been the subject of a previous report submitted to the Commission or the subject of action by the Commission. It is described below.

In an effort to coordinate the WEQ-011 Business Practice Standard definitions with the NERC Glossary, the terms Power Plant Operator and Power Plant Operator's Facility were changed to Power Plant Gas Coordinator and Power Plant Gas Coordinator's Facility, respectively. This was done to eliminate inconsistencies between other industry definitions for the term and to allow the retention of the electric reliability connotation. Additionally, the BPS proposed modifications to the WEQ-011 Business Practice Standards that included the addition of introduction and applicability sections, the development of a definition for the term Transportation Service Provider and revisions to ensure the consistent application of the terms Balancing Authority and Reliability Coordinator. The effort was coordinated with the Wholesale Gas Quadrant BPS and EC to ensure consistency across the wholesale quadrants. The WEQ BPS met five times to discuss the issue and held three joint meetings with the WGQ BPS on the topic. The recommendation passed a joint WEQ BPS and WGQ BPS subcommittee vote on September 28, 2009 and

³⁸ See footnote 15.

was sent out for a thirty-day industry comment period on October 2, 2009. The recommendation was approved by the WEQ EC on June 11, 2010 via notational ballot, and ratified by the membership on July 15, 2010.

Smart Grid Standards

Standards subject of a previous report to the Commission or action by the Commission

In the WEQ Version 003 publication of standards, NAESB includes eight Smart Grid related standards that have been the subject of a previous report submitted to the Commission or the subject of action by the Commission. They are described below.

On July 7, 2011, NAESB submitted a set of Smart Grid related standards³⁹ that were developed at the request of the National Institute of Standards and Technology (NIST) and the Smart Grid Interoperability Panel (SGIP) as part of their national effort to fulfill NIST obligations under the Energy Independence and Security Act of 2007 (“EISA”).⁴⁰ The standards developed by NAESB define use cases and data requirements that respond to the priority action plans created by the SGIP to foster standards development within standards setting organizations. Specifically, NAESB was asked to develop use case and data requirement standards related to priority action plan 03 (Common Price Communication Model)⁴¹, priority action plan 04 (Common Scheduling Mechanism)⁴² and priority action plan 09 (Standardized Demand Response and Distributed Energy Resource Signals).⁴³ The standards development effort was coordinated with a number of external organizations and the standards served as a foundation for the development of communication specifications created by the Organization of the Advancement of Structured Information Standards in fulfillment of their obligations under the priority action plans. At the direction of the NAESB Board of Directors, the NAESB WEQ and Retail Electric Quadrant (REQ) Executive Committees formed the joint WEQ and REQ Smart Grid Standards Development Subcommittees to address the standards assignment. The subcommittee developed the standards for both the retail and wholesale markets through a two phase approach by expediently developing an initial set of use cases and data requirements for use by the Organization of the Advancement of Structured Information Standards and then refining the use cases and data requirements in a second phase. This approach was taken to ensure that both organizations satisfied the timeline requirements dictated by NIST and the SGIP through the priority action plans. The standards development activity took place from September 2009 to October 2010 and resulted in seven sets of standards. The phase one standards were ratified by the NAESB membership on August 20, 2010, and the phase two standards were ratified on March 21, 2011.

³⁹ Submittal of Smart Grid Related Standards (Docket No. RM05-5-000, et al.), available at: http://www.naesb.org/pdf4/ferc_070711_smartgrid_standards.pdf (submitted July 7, 2011).

⁴⁰ EISA § 1305(d), Public Law No. 110-140, 121 Stats. 1492, 1788 (2007) (to be codified at 15 U.S.C. § 1735(d))

⁴¹ NIST Smart Grid Collaboration Wiki Smart Grid Interoperability Panel Site for Priority Action Plan 03 is available at <http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/PAP03PriceProduct>.

⁴² NIST Smart Grid Collaboration Wiki Smart Grid Interoperability Panel Site for Priority Action Plan 04 is available at <http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/PAP04Schedules>

⁴³ NIST Smart Grid Collaboration Wiki Smart Grid Interoperability Panel Site for Priority Action Plan 09 is available at <http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/PAP09DRDER>.

In addition to the assignments given to NAESB through NIST and SGIP priority action plans 03, 04 and 09, NAESB was asked to develop an information model for the communication of consumer energy usage. This request was made through priority action plan 10 and was officially given to NAESB in May 2010 with a December 2010 deadline. In response, the joint REQ and WEQ Smart Grid Standards Subcommittee on Priority Action Plan 10 was created and held its first meeting on June 22, 2010. Between June 22, 2010 and August 31, 2010, when both the REQ and WEQ Energy Usage Information Model were unanimously adopted, the subcommittee held a total of fifteen conference calls and a one week informal comment period. The recommendations were reviewed by the WEQ and REQ Executive Committees on October 15, 2010 and considered for vote on October 22, 2010. The REQ recommendation was adopted by the Executive Committee during the October 22, 2010 meeting, and the WEQ recommendation was adopted through notational ballot on October 29, 2010. Both recommendations were ratified by the membership on November 29, 2010 and presented at the fall 2010 SGIP meeting the same week. The energy usage information model serves as a “seed standard” and focuses on the representation of energy usage information, which includes historic, present and future projected usage and load for specific time periods. The standard defines a common data format of classes and attributes to communicate information between utilities, third parties, and energy use customers, via customer devices and/or third-party energy services providers and enables the exchange of detailed energy information in a consistent format for use by all parties.

Demand Side Management and Energy Efficiency

Standards subject of a previous report to the Commission or action by the Commission

In the WEQ Version 003 publication of standards, NAESB includes two Demand Response and one Energy Efficiency related sets of standards that have been the subject of a previous report submitted to the Commission or the subject of action by the Commission. They are described below.

On April 17, 2009, NAESB submitted phase one of the WEQ-021 Measurement and Verification of Wholesale Electricity Demand Response Business Practice Standards to the Commission.⁴⁴ These standards were ratified by the membership on March 16, 2009 and address the measurement and verification of characteristics of demand response products and services administered for application in the wholesale electricity market. They provide a framework for transparency, accountability and consistency. Additionally, the standards address the four product/service categories (energy service, capacity service, reserve service and regulation service) and establish criteria for the use of equipment, technology and procedures to quantify the demand reduction value delivered. On September 17, 2009 the Commission issued a Notice of Proposed Rulemaking (NOPR) on the standards and supported NAESB’s initiative for a phase two effort to develop more technical standards that apply to the Independent System Operators and Regional Transmission Organization (ISO-RTO). On April 15, 2010, the Commission adopted the phase

⁴⁴ NAESB Report on Wholesale Electric Market Measurement and Verification Standards for Demand Response Products and Services, Docket No. RM05-5-000, available at http://naesb.org/pdf4/ferc041709_dsm_filing.pdf (April 17, 2009).

one standards through a final order and again supported the phase two effort by noting that additional substantive standards that create transparency and consistency would benefit the wholesale market.⁴⁵ The phase two effort took place from April 16, 2009 to January 26, 2011 and resulted in additional granularity to the business practice standards and definitions developed in the phase one effort, most notably in the areas of meter data reporting deadline, advanced notification, telemetry interval, meter accuracy for after-the-fact metering, meter data reporting interval and adjustment window. This effort was conducted with the agreement of the Demand Side Management / Energy Efficiency Subcommittee that standards development should not be undertaken in areas that would be duplicative of the ISO-RTO stakeholder process unless otherwise directed by the Commission. The phase two standards were ratified by the membership on March 21, 2011 and are currently the subject of a NOPR issued by the Commission on April 19, 2012.⁴⁶

In addition to the phase two Measurement and Verification of Wholesale Electricity Demand Response Business Practice Standards, the Measurement and Verification of the Energy Efficiency Products Business Practice Standards were included in the April 19, 2012 NOPR.⁴⁷ The WEQ-021 Energy Efficiency Business Practice Standards create a standardized method for quantifying the energy reduction for energy efficiency measures, lighting, appliances, industrial process improvements and building management. The standards contain energy efficiency use criteria in wholesale markets, the general requirements for the structure of a measurement and verification plan and detailed criteria for accepted measurement and verification methodologies. They were developed through working groups and tasks forces of the Demand Side Management / Energy Efficiency Subcommittee between July 2009 and December 2010 and were ratified by the membership on May 13, 2011.

Standards Related to Terms, Definitions and Acronyms

Standards not subject of a previous report to the Commission or action by the Commission

In the WEQ Version 003 publication of standards, NAESB includes two standards related to terms, definitions and acronyms that have not been the subject of a previous report submitted to the Commission or the subject of action by the Commission. They are described below.

First, as part of an ongoing NAESB effort to address inconsistencies, the WEQ SRS modified the definition of Bulk Electric System to be consistent with the NERC approved definition for the term. The WEQ EC adoption of the modified definition is in alignment with paragraph no. 40 of FERC Order 676 that directed NERC to take the lead on defining reliability-related terms and suggested NAESB use NERC definitions

⁴⁵ Standards for Business Practices and Communication Protocols for Public Utilities, Order No. 676, FERC Stats. & Regs. ¶ 31,216, n.5 (2006), reh'g denied, Order No. 676-A, 116 FERC ¶ 61,255 (2006), Order No. 676-B, Final Rule, FERC Stats. & Regs. ¶ 31,246 (2007), Order No. 676-C, Final Rule, FERC Stats. & Regs. ¶ 31,274 (2008), Order No. 676-D, order granting clarification and denying reh'g, 124 FERC ¶ 61,317 (2008), Order No. 676-E, Final Rule, FERC Stats. & Regs. ¶ 31,299 (2009), Order No. 676-F, Final Rule, FERC Stats. & Regs. ¶ 61,022 (2010).

⁴⁶ Standards for Business Practice and Communication Protocols for Public Utilities, Notice of Proposed Rulemaking, 77 FR 24,427 (April 19, 2012), FERC Stats. & Regs. ¶ 61,041(2012).

⁴⁷ Id.

for such terms.⁴⁸ To develop the recommendation, the SRS met twice over two days and on January 17, 2012 voted to send the recommendation out for a thirty-day formal comment period, which began on January 18, 2012. The recommendation was adopted by the WEQ EC on February 21, 2012 and was ratified by the membership on March 26, 2012.

Second, the chairs of the WEQ standards development subcommittees developed the WEQ-000 set of standard definitions in an effort to provide a common location for all abbreviations, acronyms and definitions of terms and modified existing NAESB definitions to address both internal inconsistencies and inconsistencies with the NERC Glossary. The new standards were partially developed in response to guidance provided by the Commission in FERC Order No. 676-C to ensure that NERC and NAESB definitions are complementary.⁴⁹ As a result of the effort, differences between the NAESB and NERC definitions have been reconciled. To develop the WEQ-000 Business Practice Standards, the chairs of the WEQ standards development subcommittees met numerous times beginning in October 2008 through August 2009 when a draft recommendation was sent out for an informal comment period. Based on the comments received, revisions were made to the draft recommendation, and the recommendation was sent out for a thirty-day formal comment period on November 12, 2009. The recommendation was adopted by WEQ EC on February 2, 2010, and was ratified by the membership on March 24, 2010.

Interpretations

Interpretation not subject of a previous report to the Commission or action by the Commission

In the WEQ Version 003 publication of standards, NAESB includes one interpretation that has not been the subject of a previous report submitted to the Commission or the subject of action by the Commission. It is described below.

The Version 003 publication includes an interpretation of standards WEQ-001-9.1 and WEQ-001-10.1. The interpretation was developed by the WEQ Interpretations Subcommittee over the course of two meetings held in December 2011 and February 2012 and clarifies that a redirect on a firm basis may be submitted to modify only the source of a long term firm reservation. It was adopted by the WEQ Executive Committee on February 21, 2012 and ratified by the membership on March 26, 2012.

Items Identified for NAESB Standards Development that the Organization has Decided Needed No Action

Since the publication of NAESB WEQ Version 002.1, several WEQ Annual Plan Items were deemed to require no standards development action by NAESB as they have been addressed by other NAESB efforts, or evaluated and determined that standards development was not necessary. When a subcommittee determines that no action is to be taken on a particular item, that item is posted for a 30 day industry comment period. The EC reviews any comments submitted and the item must pass a simple majority vote of the EC. Items for which no action is

⁴⁸ Order No. 676 at ¶ 40.

⁴⁹ Standards for Business Practices and Communication Protocols for Public Utilities, Order No. 676, FERC Stats. & Regs. ¶ 31,216, (2006), reh'g denied, Order No. 676-A, 116 FERC ¶ 61,255 (2006), Order No. 676-B, Final Rule, FERC Stats. & Regs. ¶ 31,246 (2007), Order No. 676-C, Final Rule, FERC Stats. & Regs. ¶ 31,274 (2008).

required do not require membership ratification, as that process is reserved for creations of new standards, or modifications to or deletion of existing standards. There were three items that were determined to require no action by NAESB:

EC Date	Recommendation	Recommendation Description
May 4, 2010	2009 WEQ Annual Plan Items 3.a.ii.1 / R07013	Develop a Confidentiality Agreement
October 26, 2010	2010 WEQ Annual Plan Item 1.d	Monitor and develop NAESB business practices as needed to complement NERC reliability standards for FAC-012 and FAC-013
October 25, 2011	2011 WEQ Annual Plan Item 2.a.iv.1	Paragraph No. 1390 of Order 890 - Terminations related to: deficient requests, customer failure to pay required annual reservation fee, and customer modifications to applications which are meaningfully different



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October 17, 2011

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

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

2012 Calendar of Board and Advisory Council Meetings

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

2012 Calendar of Executive Committee Meetings

Date	Meeting	Location
February 21-23	Executive Committee (WEQ, Retail, WGQ)	Host Salt River Project, Phoenix, AZ
May 1-3	Executive Committee (WEQ, Retail, WGQ)	Host Aces Power, Carmel, IN
August 21-23	Executive Committee (WEQ, Retail, WGQ)	Host Kinder Morgan Western Region Pipelines, Colorado Springs, CO
October 23-25	Executive Committee (WEQ, Retail, WGQ)	Host Dominion, Richmond, VA

Notes:

1. The Retail Executive Committee meetings will be held by conference call and web cast unless otherwise determined by the retail leadership.
2. For each of the Board meetings, a dinner will be held the night before at the Petroleum Club in the Exxon Building, 800 Bell Street, 43rd Floor.