North American Energy Standards Board

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

NORTH AMERICAN ENERGY STANDARDS BOARD

RETAIL EXECUTIVE COMMITTEES MEETING MATERIALS ASSEMBLED

Wednesday May 13, 2009 – 10:00 am to 4:00 pm

Conference Call/Web Cast and for in person attendance at ACES Power, Carmel, IN

North American Energy Standards Board

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NORTH AMERICAN ENERGY STANDARDS BOARD RETAIL EXECUTIVE COMMITTEES MEETING

Wednesday, May 13, 2009 – 10:00 a.m. to 4:00 p.m. C,

Web Cast and Conference Call, for in person attendance -- ACES Power, Carmel, IN

TABLE OF CONTENTS

#	Agenda Item	Documents	Page #
1.	Welcome		
	• Antitrust Guidelines	Antitrust Statement	1
	• 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)	EC Terms EC Alternate Terms	2 7
	• Adoption of Retail Agenda (simple majority) http://www.naesb.org/pdf4/ec051209a.doc	Agenda	12
2.	Retail Quadrants Draft Minutes (simple majority to approve)		
	• Adoption of the Retail EC Meeting Minutes: • February 4, 2009: http://www.naesb.org/pdf4/retail_ec020409dm.doc	2-4--09 Draft Minutes	23
3.	Review and vote on 2009 Retail Annual Plan Item 1 / R05016 – Develop Technical Electronic Implementation Standards and Data Dictionaries (Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions) (Super majority vote)		
	• Recommendation: http://www.naesb.org/pdf4/retail_2009_api1_r05016_rec.doc	Recommendation	28
	• Comments due April 1, 2009:		
	Southern Company: http://www.naesb.org/pdf4/retail_030209southern.doc	Southern Company Comments	105
	PPLSolutions: http://www.naesb.org/pdf4/retail_ec042209w2.doc	PPLSolutions Comments	118
4.	Review and vote on R08015, 2009 WGQ Annual Plan Item 2.b, 2009 Retail Annual Plan Item 5 – "Revise the Trading Partner Agreement TPA by removing the Exhibits from the agreement and relegate such information as contained in the Exhibits to operational worksheet(s)" (super-majority vote)		
	• Recommendation: http://www.naesb.org/pdf4/r08015_rec.doc	Recommendation	121
	• Exhibits: http://www.naesb.org/pdf4/r08015_rec_attach1.doc (A), http://www.naesb.org/pdf4/r08015_rec_attach3.doc (B), http://www.naesb.org/pdf4/r08015_rec_attach4.doc (C), http://www.naesb.org/pdf4/r08015_rec_attach5.doc (D), http://www.naesb.org/pdf4/r08015_rec_attach7.doc (E), and http://www.naesb.org/pdf4/r08015_rec_attach9.doc (F)	Exhibits	124
	• Four Sets of Comments from the Chair: http://www.naesb.org/pdf4/retail_wgq_ec_051309w1.doc (TransCanada), http://www.naesb.org/pdf4/retail_wgq_ec_051309w2.doc (ANR 1), http://www.naesb.org/pdf4/retail_wgq_ec_051309w3.doc (ANR 2), http://www.naesb.org/pdf4/retail_wgq_ec_051309w4.doc (ANR 3)	Chair Comments	147

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TABLE OF CONTENTS

#	Agenda Item	Documents	Page #
	• Comments due April 13, 2009: ANR Pipeline (1): http://www.naesb.org/pdf4/wgq_req_rgq_031309_anr_tpa.doc ANR Pipeline (2): http://www.naesb.org/pdf4/wgq_req_rgq_031309_anr_tpa2.doc ANR Pipeline (3): http://www.naesb.org/pdf4/wgq_req_rgq_031309_anr_tpw.doc TransCanada: http://www.naesb.org/pdf4/wgq_req_rgq_031309_transcanada_tpw.doc Dominion Transmission: http://www.naesb.org/pdf4/wgq_req_rgq_031309dti.doc	ANR 1 Comments ANR 2 Comments ANR 3 Comments TransCanada Comments Dominion Transmission Comments	155 156 157 158 164
5.	Review and discuss 2009 Retail Annual Plan Item 4.a – Develop Model Business Practices and procedures for responding to Customer inquiries directed to Distributors and/or Suppliers and for notification of the other party"		
	• Recommendation: http://naesb.org/pdf4/retail_2009_api_4a_rec.doc • **Comments due May 18, 2009:** this agenda item is for discussion only. A separate Retail EC conference call is scheduled for May 26 to address the recommended standards or the determination can be made that a notational ballot will be forwarded to Retail EC members at the conclusion of the comment period.	Recommendation	165
6.	Review and discuss 2009 Retail Annual Plan Item 4.a – Part 2 – Develop Model Business Practices and procedures for responding to Customer inquiries directed to Distributors and/or Suppliers and for notification of the other party		
	• Recommendation: http://naesb.org/pdf4/retail_2009_api_4a_part2_rec.doc • **Comments due May 25, 2009**: this agenda item is for discussion only. A separate Retail EC conference is scheduled for May 26 to address the recommended standards or the determination can be made that a notational ballot will be forwarded to Retail EC members at the conclusion of the comment period.	Recommendation	168
7.	Update on Retail Publication Schedule: http://www.naesb.org/misc/retail_publication_schedule_032009.doc	Publication Schedule	184

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TABLE OF CONTENTS

#	Agenda Item	Documents	Page #
8.	Subcommittee Updates (meeting materials for updates will be provided by leadership as they are available):		
	• Triage Subcommittee: http://www.naesb.org/pdf4/tr040809disposition.doc	Triage Report	188
	• Business Practices Subcommittee (BPS)		
	• DSM-EE Subcommittee		
	• Information Requirements Subcommittee (IR)		
	• Technical Electronic Implementation Subcommittee (TEIS)		
	• Texas Task Force		
	• Glossary Efforts		
9.	Review, discuss, identify changes and vote to approve changes to the 2009 Annual Plan to be proposed to the Board of Directors: http://www.naesb.org/pdf4/draft_retail_2009_annual_plan.doc (simple majority vote for EC endorsement of proposed changes to be forwarded for Board approval)	2009 Annual Plan	190
10.	Board of Directors, Board Committee and Regulatory Updates (no votes or action to be taken):		
	• Board Updates - http://www.naesb.org/pdf4/bd032609dm.doc (March 26, 2009)	Board 3-26-09 Minutes	195
	• Wholesale Gas and Wholesale Electric key activities – WGQ Annual Plan, WEQ Annual Plan - http://www.naesb.org/pdf4/draft_wgq_2009_annual_plan.doc (WGQ), http://www.naesb.org/pdf4/draft_weq_2009_annual_plan.doc (WEQ)	WGQ 2009 Annual Plan WEQ 2009 Annual Plan	204 209
	• Update on Board Retail Structure Review Committee efforts – http://www.naesb.org/pdf4/rsrc020409a3.doc	Retail Restructuring Report	219

	• FERC Efforts:
	  • WEQ DSM-EE Filing on April 17, 2009 - http://www.naesb.org/pdf4/ferc041709_dsm_filing.pdf, and
	  • FERC NOI on Smart Grid Action Plan on March 19, 2009 - http://www.naesb.org/pdf4/ferc031909_smart_grid_noi.pdf
		NAESB DSM Report
		FERC NOI
			222
			269

11.	Other Business	2009 Calendar	312
12.	Adjourn		

Attire – Business Casual

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NAESB ANTITRUST GUIDELINES STATEMENT

ANTITRUST GUIDELINES

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

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

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

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

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2009 EXECUTIVE COMMITTEE TERMS – Wholesale Gas Quadrant

PRODUCERS SEGMENT		**TERM END:**
Jim Busch	Director of Energy Policy and Regulation, BP Energy Company	12-31-2010
Pete Frost	Director – Regulatory Affairs, ConocoPhillips Gas and Power Marketing	12-31-2010
Chuck Cook	Manager - Regulatory Affairs, Chevron	12-31-2009
Richard D. Smith	Regulatory & Compliance Manager, Noble Energy, Inc.	12-31-2009
Mike Shepard	General Counsel, Mewbourne Oil Company	12-31-2009
PIPELINE SEGMENT		
Bill Griffith	Consultant, El Paso Natural Gas Company	12-31-2011
Kathryn Burch	Project Manager, Standards and Regulatory, Spectra Energy Transmission	12-31-2011
Dale Davis	Consultant, Williams Gas Pipeline	12-31-2010
Randy Young	Vice President - Regulatory Compliance and Corporate Services, Boardwalk Pipeline Partners, LP	12-31-2009
Kim Van Pelt	Regulatory Compliance Manager, Panhandle Eastern Pipe Line	12-31-2009
LOCAL DISTRIBUTION COMPANY (LDC) SEGMENT		
Rodger Schwecke	Director – Energy Markets and Capacity Products, Sempra Energy - Southern California Gas	12-31-2011
V A C A N C Y		12-31-2011
Paul Buckley	Director of Rates and Regulatory Affairs, Washington Gas	12-31-2010
Mike Novak	Assistant General Manager, National Fuel Gas Distribution	12-31-2009
Craig Colombo	Energy Trader III, Dominion Resources	12-31-2009
END USERS SEGMENT		
Kelly Daly	Partner, Stinson Morrison Hecker, LLP (rep. Arizona Public Service Company)	12-31-2010
Valerie Crockett	Senior Energy Markets & Policy Specialist, Tennessee Valley Authority	12-31-2010
Lori-Lynn C. Pennock	Senior Fuel Supply Analyst, Salt River Project	12-31-2009
Dona Gussow	Manager, Contract Administration, Florida Power and Light Company	12-31-2009
Tina Burnett	Natural Gas Operations Administrator, The Boeing Company	12-31-2009
SERVICES SEGMENT		
Steve Abbey	Manager of Regulatory Affairs in the Marketing Department of Anadarko	12-31-2010
Lisa Simpkins	Vice President, Energy Policy – Natural Gas, Constellation Energy Commodities Group	12-31-2010
Leigh Spangler	CEO, Latitude Technologies, Inc.	12-31-2009
Jim Buccigross	Vice President, 8760 Inc.	12-31-2009
Jeff Jarvis	Senior Counsel, EnCana Marketing (USA), Inc.	12-31-2009

EXECUTIVE COMMITTEE OFFICERS: Jim Buccigross is WGQ chairman of the Executive Committee, Mike Novak is WGQ vice chairman; Mike Novak is the RGQ chairman, Ruth Kiselewich is the REQ chairman, Kathy York is the WEQ chairman and Matt Goldberg is the WEQ vice chairman.

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2009 EXECUTIVE COMMITTEE TERMS – Retail Electric Quadrant

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

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2009 EXECUTIVE COMMITTEE TERMS – Wholesale Electric Quadrant

TRANSMISSION SEGMENT		**TERM END:**	**SUBSEGMENT:**
Patrick McGovern	Manager - System Services, Georgia Transmission Corporation	12-31-2009	Muni/Coop
Wendy D. Weathers	System Operations, Salt River Project	12-31-2010	Fed/State/Prov.
Daryl McGee	Manager – Transmission Services, Southern Company Services	12-31-2010	IOU
Edward Davis	Policy Consultant, Entergy Services, Inc.	12-31-2009	IOU
Mark Hackney	Section Leader of Transmission Services Trading, Arizona Public Service	12-31-2010	at large
Bob Harshbarger	OASIS Trading Manager, Puget Sound Energy	12-31-2009	at large
Michelle Mizumori	Market Interface Manager, Western Electricity Coordinating Council (WECC)	12-31-2009	At-Large
GENERATION SEGMENT			
William J. Gallagher	Special Contracts Chief, Vermont Public Power Supply Authority	12-31-2009	Muni/Coop
Kathy York	Sr. Energy Markets & Policy Specialist, Tennessee Valley Authority	12-31-2010	Fed/State/Prov.
Jalal Babik	Manager – Electric Policy, Dominion Resource Services, Inc.	12-31-2010	IOU
John Ciza	Project Manager Energy Policy and Regulatory Affairs, Southern Company Services	12-31-2009	IOU
Ron Mucci	Consultant, Representing Entegra Power Group LLC	12-31-2010	Merchant
Trent Carlson	Vice President – Regulatory Affairs, Reliant Energy Services	12-31-2009	at large
Neal Balu	Director of Transmission Policy, Wisconsin Public Service Corporation	12-31-2009	at large
MARKETERS/BROKERS SEGMENT			
Mack Thompson	Vice President – Power Supply Services, American Municipal Power – Ohio, Inc.	12-31-2010	Muni/Coop
Belinda Thornton	General Manager - Energy Origination, Tennessee Valley Authority	12-31-2009	Fed/State/Prov.
V A C A N C Y		12-31-2010	at large
Richard Lehman	Supply and Trading, Salt River Project	12-31-2009	at large
John Apperson	Director – Commercial and Trading, PacifiCorp Energy	12-31-2010	IOU
Roy True	Manager of Regulatory and Markets Development, ACES Power Marketing	12-31-2009	at large
Barry Green	Barry Green Consulting (representing Electric Power Supply Association (EPSA))	12-31-2009	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	12-31-2010	Muni/Coop
V A C A N C Y		12-31-2009	at large
Alan Pritchard	Senior Engineer, Duke Energy Corporation	12-31-2010	IOU
Jeffrey C. Mueller	Manager - ERO / RE Policy and Standards Interface, Public Service Electric and Gas Company	12-31-2009	IOU
Robert Martinko	Consultant FERC Compliance, FirstEnergy Service Company	12-31-2010	at large
Syd Berwager	Industry Restructuring Project Manager, Bonneville Power Administration/Power Business Line	12-31-2009	Other
Andy Rodriquez	Manager of Business Practice Coordination, NERC	12-31-2009	At-Large
END USERS SEGMENT			
V A C A N C Y		12-31-2009	at large
Aaron Breidenbaugh	Senior Manager - Regulatory Affairs and Public Policy - New York, EnerNOC, Inc.	12-31-2010	at large
Lou Ann Westerfield	Policy Strategist, Idaho Public Utilities Commission, rep. National Association of Regulatory Utility Commissioners	12-31-2010	Regulator
V A C A N C Y		12-31-2009	at large
V A C A N C Y		12-31-2010	at large
V A C A N C Y		12-31-2009	at large
Paul Sorenson	Director-Central Markets Strategy, Open Access Technology International, Inc.	12-31-2009	At-Large
INDEPENDENT GRID OPERATORS/PLANNERS			
Thomas Bowe	Executive Director – Reliability Integration, PJM Interconnection, LLC	12-31-2010	
Jim Castle	Manager, Grid Operations, New York Independent System Operator, Inc.	12-31-2010	
Matt Goldberg	Director Reliability & Operations Compliance ISO New England, Inc.	12-31-2010	
Anjali Sheffrin	Director Market and Product Development and Chief Economist, California ISO	12-31-2010	
Joel Mickey	Manager Market Operations Support, Electric Reliability Council of Texas	12-31-2009	
Ed Skiba	Technical Manager, Standards Compliance & Strategy, Midwest ISO	12-31-2009	
Charles Yeung	Executive Director Interregional Affairs, Southwest Power Pool	12-31-2009	

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2009 EXECUTIVE COMMITTEE TERMS – Retail Gas Quadrant

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

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2009 EXECUTIVE COMMITTEE ALTERNATES – Wholesale Gas Quadrant

END USER SEGMENT	
Paul A. Jones	Senior Marketing Representative, Salt River Project
Art Morris	Gas Originator, Florida Power & Light Company
Kenneth Nordlander	Fuel Procurement, Arizona Public Service Company
Katherine C. Zeitlin	Legal Department, Arizona Public Service Company
DISTRIBUTION SEGMENT	
Rick Ishikawa	Interconnect Account Manager in Capacity Products Group, Southern California Gas Company
Phil Precht	Management Consultant, Pricing and Regulatory Services Department, Baltimore Gas and Electric Company
Donald Petersen	Senior Gas Resource Analyst, Pacific Gas and Electric Company
Jim Blasiak	Specialist Federal Regulatory Affairs, Washington Gas Light Company
George Simmons	FERC Specialist, NiSource Inc.
Scott Butler	Project Manager, Energy Markets Policy Group, Consolidated Edison Company of New York, Inc.
PIPELINE SEGMENT	
Bill Grygar	Vice President, Panhandle Eastern Pipe Line
Scott Hansen	Questar Pipeline Company
Iris King	Director, Technical and Marketing Support, Dominion Transmission, Inc.
Paul Love	Director, Electronic Customer Services, Natural Gas Pipe Line Company of America
Mark Gracey	Consultant, Tennessee Gas Pipeline Company
Christopher Burden	Consultant e-Commerce & Service Delivery, Williams Gas Pipeline
Tom Gwilliam	Iroquois Gas Transmission System
PRODUCER SEGMENT	
David Ogden	Manager, Marketing Administration, Dominion Exploration & Production, Inc.
Rhonda Denton	Regulatory Affairs, BP Energy Company
SERVICES SEGMENT	
Keith Sappenfield	Director, US Regulatory Affairs, Midstream and Marketing, EnCana Oil and Gas (USA), Inc.

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DISTRIBUTION SEGMENT	
Keith P. Hock	Director ARES Business Center, Ameren Services Company
Ripley Newcomb	Manager – Conservation and Load Management Program, Dominion
William J. Welzant	Principal Supplier Services Analyst, Supplier Account Management, Baltimore Gas and Electric
END USER SEGMENT	
SERVICES SEGMENT	
SUPPLIER SEGMENT	

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END USER SEGMENT		**SUB-SEGMENT**
Robert Schwermann	Manager – Customer Care, Open Access Technology International, Inc.	At-Large
DISTRIBUTION/LSE SEGMENT		**SUB-SEGMENT**
Gerry Adamski	Vice President of Standards, NERC	At-Large
Lee Hall	Coordination Manager – Power Services, Bonneville Power Administration	Other
GENERATION SEGMENT		**SUB-SEGMENT**
Joel Dison	Project Manager, Southern Company Generation and Energy Marketing	IOU
Lou Oberski	Director – Electric Market Policy, Dominion Resources Services, Inc	IOU
Francis Halpin	Bonneville Power Administration	Fed/State/Prov.
MARKETER/BROKER SEGMENT		**SUB-SEGMENT**
Jeff Ackerman	Manager, CRSP-Energy Mgmt., Western Area Power Administration	Fed/State/Prov
Brenda Anderson	Bonneville Power Administration	Fed/State/Prov
Valerie Crockett	Energy Markets & Policy Specialist, Tennessee Valley Authority	Fed/State/Prov
TRANSMISSION SEGMENT		**SUB-SEGMENT**
Barbara Rehman	Policy Development & Analysis, Bonneville Power Administration	Fed/State/Prov.
Tim Ponseti	Tennessee Valley Authority	Fed/State/Prov.
Chuck Feagans	Tennessee Valley Authority	Fed/State/Prov.
Bob McKee	American Transmission Company	ITC
Brian Weber	Manager – Transmission Strategy and Policy, PacifiCorp	IOU
Shay Labray	Transmission Strategy Consultant, PacifiCorp	IOU
Jane Daly	Rate & Regulatory Advisor, Arizona Public Service Company	IOU
Marceline Otondo	Regulatory Compliance Advisory, Arizona Public Service Company	IOU
Narinder Saini	Policy Consultant, Entergy Services, Inc.	IOU
J.T. Wood	Southern Company Services	IOU
W. Shannon Black	Market Issues and Standards Processes Manager, Western Electricity Coordinating Council	at large

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INDEPENDENT GRID OPERATORS/PLANNERS SEGMENT		SUB-SEGMENT
Brent Kingsford	Sr. Operations Regulatory Specialist, California ISO (CAISO)	
Paul Wattles	Supervisor Demand Side Programs, Electric Reliability Council of Texas (ERCOT)	
Bill Blevins	Sr. Market Support Analyst, Electric Reliability Council of Texas (ERCOT)	
Robert Coughlin	Principal Scientist Reliability & Operations Compliance, ISO New England, Inc.	
Cheryl Mendrala	Principal Engineer, ISO New England, Inc.	
Brian Pedersen	Manager Transmission Services, Midwest ISO	
Jason Marshall	Technical Manager, Midwest ISO	
Dean Hartung	Manager Real Time Market Operations, PJM Interconnection, LLC	
Cathy Wesley	Sr. Analyst, PJM Interconnection, LLC	
Carl Monroe	Sr. Vice President Operations & Chief Operating Officer, Southwest Power Pool	
Greg Campoli	Supervisor – Reliability Compliance and Assessment, New York ISO	
Diana Pommen	Director Interjurisdictional Affairs, Alberta Electric System Operator	
Jimmy Womack	Manager-Tariff Administration, Southwest Power Pool	
Shucheng Liu	Ph.D., Principal Market Developer, California ISO (CAISO)	
Terry Bilke	Director Standards Compliance and Strategy, Midwest ISO	

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2009 EXECUTIVE COMMITTEE ALTERNATES – Retail Gas Quadrant

DISTRIBUTORS SEGMENT	
Joe Stengel	Manager, Federal Regulatory Affairs, Philadelphia Gas Works
Mike McShane	Program Leader, Gas Choice Programs, Baltimore Gas and Electric Company
END USERS SEGMENT	
SERVICE PROVIDERS SEGMENT	
SUPPLIER SEGMENT	
Paul Cherevka	Project Manager Data Warehouse, Dominion Retail

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May 5, 2009

TO: NAESB Quadrant Executive Committee Members, Alternates and Interested Industry Participants

FROM: Rae McQuade, NAESB President

RE: Quadrant Executive Committee Meeting Announcements and Draft Agendas with links to Meeting Materials – Revised Start Time for WGQ EC, Updated Links, Additional Updated Links

NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETINGS
Hosted by ACES Power in Carmel, IN

First, let me thank Roy True and ACES Power for their 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 NAESB in-person attendance meetings.

As we have announced at prior Executive Committee meetings, meeting announcements and in other communications, the Executive Committee (EC) will meet in Carmel, IN on May 12-14 hosted by ACES Power. Below are the meeting arrangements:

Where:	ACES Power, 4140 West 99th Street, Carmel, IN 46032
Contact:	Veronica Thomason, 713-356-0060
When:	Tuesday, May 12 -- 10:00 a.m. to 4:00 p.m. Eastern – Wholesale Electric Quadrant
	Wednesday, May 13[1] -- 10:00 a.m. to 4:00 p.m. Eastern – Retail Gas/Electric Quadrant
	Thursday, May 14 -- 9:00 a.m. to 3:00 p.m. Eastern – Wholesale Gas Quadrant

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. Hotel 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/ec051209ma2.doc. Travel information from Indianapolis 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/ec051209ma1.pdf. If you plan to participate by conference call, please contact the NAESB Office (713-356-0060 or naesb@naesb.org) to obtain the calling number and pass code. The EC meetings will be web cast as well. The meeting, conference calling and web casting is open to any interested party.

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.

Please note that in discussions with the Retail Quadrants EC chairs and vice chairs, it has been determined that all Retail EC meetings for 2009 will be conference call/web casts in recognition of the small number of in-person attendance from the 2008 records, and also in recognition of the reduced travel budgets for 2009 of many of the Retail EC members. However, since NAESB staff will be on location to provide support for the retail EC meetings, any Retail EC participant may choose to join the staff and participate in-person.

[1] The retail EC meetings for 2009 are all scheduled as web casts/conference calls, but NAESB staff will administer the meetings from the locations for the WEQ and WGQ EC meetings. Participants should feel free to join the NAESB staff in Carmel if they are in Carmel for the other meetings.

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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 for WEQ JISWG meetings, and upon advance request[2] for WGQ Joint IR/Technical subcommittee meetings. The details are:

Date	Time	Meeting/Location
Tues, May 12	10 am to 4 pm EC	WEQ EC Meeting/ ACES Power, Carmel – Board Room Conference Call Number: 866-740-1260 Access Code: 3560060 Security Code: 6862 Web Cast: http://www.readytalk.com (please use same codes)
	9 am to 4 pm E	WGQ Joint IR/Technical (day one)/ ACES Power, Carmel – Conference Room F
Wed, May 13	10 am to 4 pm E	Retail EC Meeting by phone/web cast/ for in person attendance, please join NAESB staff at ACES Power, Carmel -- Board Room Conference Call Number: 866-740-1260 Access Code: : 3560060 Security Code: 7318 Web Cast: http://www.readytalk.com (please use same codes)
	9 am to 4 pm E	WGQ Joint IR/Technical (day two)/ ACES Power, Carmel – Conference Room F
	9 am to 5 pm E	WEQ JISWG (day one)/ Midwest ISO, 720 City Center Drive, Carmel, Faraday Room Conference calling and web casting to be set up by Midwest ISO and will be included in the materials for the meeting.
Thu, May 14	9 am to 3 pm E	WGQ EC Meeting/ ACES Power, Carmel - Board Room Conference Call Number: 866-740-1260 Access Code: : 3560060 Security Code: 2843 Web Cast: http://www.readytalk.com (please use same codes)
	9 am to 5 pm E	WEQ JISWG (day two)/ Midwest ISO, 720 City Center Drive, Carmel, Faraday Room Conference calling and web casting to be set up by Midwest ISO and will be included in the materials for the meeting.

[2] To set up phone call in capability for the WGQ IR/Technical meetings requires request from attendees unable to participate in person. The request should be made at least one week prior to the meeting date to ensure adequate time to set up equipment.

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Date	Time	Meeting/Location
Fri, May 14	9 am to Noon E	WEQ JISWG (day three)/ Midwest ISO, 720 City Center Drive, Carmel, Faraday Room Conference calling and web casting to be set up by Midwest ISO and will be included in the materials for the meeting.

You can access the materials for this meeting from the NAESB web site, at the page specific for the subcommittee noted (WEQ: http://www.naesb.org/weq/default.asp and WGQ: http://www.naesb.org/wgq/default.asp,).

Please feel free to call the NAESB office should you have any questions or comments.

Best Regards, *Rae*

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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING
WHOLESALE ELECTRIC QUADRANT DRAFT AGENDA
Tuesday, May 12, 2009 – 10:00 am to 4:00 pm E
ACES Power, Carmel, IN

#	Agenda Item

1. Welcome
   - Antitrust Guidelines
   - 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)
   - Adoption of WEQ Agenda (simple majority) http://www.naesb.org/pdf4/ec051209a.doc
2. Wholesale Electric Quadrant Draft Minutes (simple majority to approve)
   - Adoption of the WEQ EC Meeting Minutes:
     - January 27, 2009: http://www.naesb.org/pdf4/weq_ec012709dm.doc
     - February 3, 2009: http://www.naesb.org/pdf4/weq_ec020309dm.doc
3. Review and vote on 2008 WEQ Annual Plan Item 6.h/R06006 - "Develop standards to allow for registered Market Operators to request changes to the Market Level profile of Implemented Interchange" - NO ACTION TO BE TAKEN: (simple-majority vote)
   - Recommendation: http://www.naesb.org/pdf4/weq_2008_api_6h_r06006_rec.doc
   - Comments due March 2, 2009:

     Entergy: http://www.naesb.org/pdf4/weq_013009_entergy.doc
4. Review and vote on 2009 WEQ Annual Plan Item 3.d - "FERC Order No. 717 Standards of Conduct": (super-majority vote)
   - Recommendation: http://www.naesb.org/pdf4/weq_2009_ap_3d_rec.doc
   - Comments due April 27, 2009:

     Entergy: http://www.naesb.org/pdf4/weq_032709_entergy.doc.

     SRS Comments: http://www.naesb.org/pdf4/weq_032709_srs.doc

     Duke Energy: http://www.naesb.org/pdf4/weq_032709_duke_energy.doc

     Southern Company: http://www.naesb.org/pdf4/weq_032709_southern.doc
5. Review and discuss 2009 WEQ Annual Plan Item 2.a.ii.3 – "Rollover Rights on Redirect on a Firm Basis"
   - Recommendation: http://www.naesb.org/pdf4/weq_2009_api_2aii3_rec.doc
   - **Comments due May 13, 2009**: this agenda item is for discussion only. A separate WEQ EC conference call will be scheduled to address the recommended standards.
6. Review and discuss 2009 WEQ Annual Plan Item 6.a.2/R08004 – "WEQ-011 Consistency changes to include Introduction and Applicability sections"
   - Recommendation: http://www.naesb.org/pdf4/weq_2009_api_6a2_r08004_rec.doc
   - **Comments due May 13, 2009:** this agenda item is for discussion only. A separate WEQ EC conference call will be scheduled to address the recommended standards.

     Midwest ISO: http://www.naesb.org/pdf4/weq_041309_bps_miso.pdf
7. Discuss and determine disposition of 2008 WEQ Annual Plan Item 6.b/R07020 – Develop a NAESB time and inadvertent management business practice that provides additional inadvertent payback options and improved time control
   - Recommendation Revised on February 3, 2009: http://www.naesb.org/pdf4/weq_ec020309a4.doc

   The recommendation failed to achieve a super-majority on February 23, 2009 through notational balloting.

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ACES Power, Carmel, IN

#	Agenda Item
8.	Discuss and vote (simple majority) in minor corrections: • Minor Correction submitted by JISWG on February 2, 2009: http://www.naesb.org/pdf4/weq_ec051209w1.doc • Minor Correction submitted by NAESB Staff on February 27, 2009: http://www.naesb.org/pdf4/weq_ec051209w2.doc • Minor Correction Submitted by Midwest ISO on March 3, 2009: http://www.naesb.org/pdf4/weq_ec051209w3.pdf
9.	Review and vote on recommendation from leadership of ESS/ITS and JISWG (simple majority vote): • Recommendation Submitted on March 27, 2009: http://www.naesb.org/misc/weq_subcommittee_restructure_recommendation_032709.doc

10.	Subcommittee Updates (meeting materials for updates will be provided by leadership as they are available):
	• Triage Subcommittee: http://www.naesb.org/pdf4/tr040809disposition.doc
	• Business Practices Subcommittee (BPS): http://www.naesb.org/pdf4/weq_ec051209w5.ppt
	  • TLR
	  • Time Inadvertent Management Task Force
	• DSM-EE Subcommittee
	• Electronic Scheduling (ESS) and Information Technology (ITS) Subcommittees: http://www.naesb.org/pdf4/weq_ess_its041309progress_report.xls (Progress Report), http://www.naesb.org/pdf4/order890_021109_naesb_workplan_clean.doc (Order No. 890 Work Plan)
	• Joint Interchange Scheduling Working Group (JISWG)
	• Standards Review Subcommittee (SRS): http://www.naesb.org/pdf4/weq_ec051209w4.ppt
	• Glossary Efforts

11.	Discussion on tools/certification process to support industry compliance of NAESB WEQ standards (if action is taken to modify the 2009 annual plan, a simple majority vote is needed)
12.	Review, discuss, identify changes and vote to approve changes to the 2009 Annual Plan to be proposed to the Board of Directors: http://www.naesb.org/pdf4/draft_weq_2009_annual_plan.doc (simple majority vote for EC endorsement of proposed changes to be forwarded for Board approval)

13.	Board of Directors, Board Committee and Regulatory Updates (no votes or action to be taken):
	• Board Updates - http://www.naesb.org/pdf4/bd032609dm.doc (March 26, 2009)
	• Wholesale Gas and Retail key activities – WGQ Annual Plan, Retail Annual Plan - http://www.naesb.org/pdf4/draft_wgq_2009_annual_plan.doc (WGQ), http://www.naesb.org/pdf4/draft_retail_2009_annual_plan.doc (Retail)
	• Update on Board Retail Structure Review Committee efforts – http://www.naesb.org/pdf4/rsrc011509w2.doc
	• FERC Efforts:
	  • WEQ 2.1 Filing on March 12, 2009 - http://www.naesb.org/pdf4/ferc031209_naesb_weq_version_002.1_supplemental_filing.pdf,
	  • DSM-EE Filing on April 17, 2009 - http://www.naesb.org/pdf4/ferc041709_dsm_filing.pdf, and
	  • FERC NOI on Smart Grid Action Plan on March 19, 2009 - http://www.naesb.org/pdf4/ferc031909_smart_grid_noi.pdf

14.	Other Business
15.	Adjourn

Attire – Business Casual

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

Wednesday, May 13, 2009 – 10:00 a.m. to 4:00 p.m. C
Web Cast and Conference Call, for in person attendance -- ACES Power, Carmel, IN

#	Agenda Item
1.	Welcome • Antitrust Guidelines • 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) • Adoption of Retail Agenda (simple majority) http://www.naesb.org/pdf4/ec051209a.doc
2.	Retail Quadrants Draft Minutes (simple majority to approve) • Adoption of the Retail EC Meeting Minutes: • February 4, 2009: http://www.naesb.org/pdf4/retail_ec020409dm.doc
3.	Review and vote on 2009 Retail Annual Plan Item 1 / R05016 – Develop Technical Electronic Implementation Standards and Data Dictionaries (Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions) (Super majority vote) • Recommendation: http://www.naesb.org/pdf4/retail_2009_api1_r05016_rec.doc • Comments due April 1, 2009: Southern Company: http://www.naesb.org/pdf4/retail_030209southern.doc PPLSolutions: http://www.naesb.org/pdf4/retail_ec042209w2.doc
4.	Review and vote on R08015, 2009 WGQ Annual Plan Item 2.b, 2009 Retail Annual Plan Item 5 – "Revise the Trading Partner Agreement TPA by removing the Exhibits from the agreement and relegate such information as contained in the Exhibits to operational worksheet(s)" (super-majority vote) • Recommendation: http://www.naesb.org/pdf4/r08015_rec.doc • Exhibits: http://www.naesb.org/pdf4/r08015_rec_attach1.doc (A), http://www.naesb.org/pdf4/r08015_rec_attach3.doc (B), http://www.naesb.org/pdf4/r08015_rec_attach4.doc (C), http://www.naesb.org/pdf4/r08015_rec_attach5.doc (D), http://www.naesb.org/pdf4/r08015_rec_attach7.doc (E), and http://www.naesb.org/pdf4/r08015_rec_attach9.doc (F) • Four Sets of Comments from the Chair: http://www.naesb.org/pdf4/retail_wgq_ec_051309w1.doc (TransCanada), http://www.naesb.org/pdf4/retail_wgq_ec_051309w2.doc (ANR 1), http://www.naesb.org/pdf4/retail_wgq_ec_051309w3.doc (ANR 2), http://www.naesb.org/pdf4/retail_wgq_ec_051309w4.doc (ANR 3) • Comments due April 13, 2009: ANR Pipeline (1): http://www.naesb.org/pdf4/wgq_req_rgq_031309_anr_tpa.doc ANR Pipeline (2): http://www.naesb.org/pdf4/wgq_req_rgq_031309_anr_tpa2.doc ANR Pipeline (3): http://www.naesb.org/pdf4/wgq_req_rgq_031309_anr_tpw.doc TransCanada: http://www.naesb.org/pdf4/wgq_req_rgq_031309_transcanada_tpw.doc Dominion Transmission: http://www.naesb.org/pdf4/wgq_req_rgq_031309dti.doc
5.	Review and discuss 2009 Retail Annual Plan Item 4.a – Develop Model Business Practices and procedures for responding to Customer inquiries directed to Distributors and/or Suppliers and for notification of the other party" • Recommendation: http://naesb.org/pdf4/retail_2009_api_4a_rec.doc • **Comments due May 18, 2009:** this agenda item is for discussion only. A separate Retail EC conference call is scheduled for May 26 to address the recommended standards or the determination can be made that a notational ballot will be forwarded to Retail EC members at the conclusion of the comment period.

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

Wednesday, May 13, 2009 – 10:00 a.m. to 4:00 p.m. C
Web Cast and Conference Call, for in person attendance -- ACES Power, Carmel, IN

#	Agenda Item
6.	Review and discuss 009 Retail Annual Plan Item 4.a – Part 2 – Develop Model Business Practices and procedures for responding to Customer inquiries directed to Distributors and/or Suppliers and for notification of the other party • Recommendation: http://naesb.org/pdf4/retail_2009_api_4a_part2_rec.doc • **Comments due May 25, 2009**: this agenda item is for discussion only. A separate Retail EC conference is scheduled for May 26 to address the recommended standards or the determination can be made that a notational ballot will be forwarded to Retail EC members at the conclusion of the comment period.
7.	Update on Retail Publication Schedule: http://www.naesb.org/misc/retail_publication_schedule_032009.doc
8.	Subcommittee Updates (meeting materials for updates will be provided by leadership as they are available): • Triage Subcommittee: http://www.naesb.org/pdf4/tr040809disposition.doc • Business Practices Subcommittee (BPS) • DSM-EE Subcommittee • Information Requirements Subcommittee (IR) • Technical Electronic Implementation Subcommittee (TEIS) • Texas Task Force • Glossary Efforts
9.	Review, discuss, identify changes and vote to approve changes to the 2009 Annual Plan to be proposed to the Board of Directors: http://www.naesb.org/pdf4/draft_retail_2009_annual_plan.doc (simple majority vote for EC endorsement of proposed changes to be forwarded for Board approval)

10.	Board of Directors, Board Committee and Regulatory Updates (no votes or action to be taken):
	• Board Updates - http://www.naesb.org/pdf4/bd032609dm.doc (March 26, 2009)
	• Wholesale Gas and Wholesale Electric key activities – WGQ Annual Plan, WEQ Annual Plan - http://www.naesb.org/pdf4/draft_wgq_2009_annual_plan.doc (WGQ), http://www.naesb.org/pdf4/draft_weq_2009_annual_plan.doc (WEQ)
	• Update on Board Retail Structure Review Committee efforts – http://www.naesb.org/pdf4/rsrc020409a3.doc
	• FERC Efforts:
	  • WEQ DSM-EE Filing on April 17, 2009 - http://www.naesb.org/pdf4/ferc041709_dsm_filing.pdf, and
	  • FERC NOI on Smart Grid Action Plan on March 19, 2009 - http://www.naesb.org/pdf4/ferc041709_dsm_filing.pdf

11.	Other Business
12.	Adjourn

Attire – Business Casual

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

Thursday May 14, 2009 – 9:00 a.m. to 3:00 p.m. E

ACES Power, Carmel, IN

#	Agenda Item
1.	Welcome • Antitrust Guidelines • 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) • Adoption of WGQ Agenda (simple majority) http://www.naesb.org/pdf4/ec051209a.doc
2.	WGQ Quadrants Draft Minutes (simple majority to approve) • Adoption of the WGQ EC Meeting Minutes: February 5, 2009: http://www.naesb.org/pdf4/wgq_ec020509dm.doc
3.	Review and vote on Recommendation R07017 - "Modify the Confirmation Response Quick Response (NAESB WGQ Std. 1.4.7) to be the newly re-named Confirmation Quick Response such that it can be used as a quick response for both the Request for Confirmation (NAESB WGQ Std. 1.4.3) and the Confirmation Response (NAESB WGQ Std. 1.4.4) (super-majority vote) • Recommendation: http://www.naesb.org/pdf4/wgq_040609reqcom.doc • Comments due May 7, 2009 – as comments are received, they will be posted and an updated agenda with links will be issued as the meeting date approaches.
4.	Review and vote on R08015, 2009 WGQ Annual Plan Item 2.b, 2009 Retail Annual Plan Item 5 – "Revise the Trading Partner Agreement TPA by removing the Exhibits from the agreement and relegate such information as contained in the Exhibits to operational worksheet(s)" (super-majority vote) • Recommendation: http://www.naesb.org/pdf4/r08015_rec.doc • Exhibits: http://www.naesb.org/pdf4/r08015_rec_attach1.doc (A), http://www.naesb.org/pdf4/r08015_rec_attach3.doc (B), http://www.naesb.org/pdf4/r08015_rec_attach4.doc (C), http://www.naesb.org/pdf4/r08015_rec_attach5.doc (D), http://www.naesb.org/pdf4/r08015_rec_attach7.doc (E), and http://www.naesb.org/pdf4/r08015_rec_attach9.doc (F) • Four Sets of Comments from the Chair: http://www.naesb.org/pdf4/retail_wgq_ec_051309w1.doc (TransCanada), http://www.naesb.org/pdf4/retail_wgq_ec_051309w2.doc (ANR 1), http://www.naesb.org/pdf4/retail_wgq_ec_051309w3.doc (ANR 2), http://www.naesb.org/pdf4/retail_wgq_ec_051309w4.doc (ANR 3) • Comments due April 13, 2009: ANR Pipeline (1): http://www.naesb.org/pdf4/wgq_req_rgq_031309_anr_tpa.doc ANR Pipeline (2): http://www.naesb.org/pdf4/wgq_req_rgq_031309_anr_tpa2.doc ANR Pipeline (3): http://www.naesb.org/pdf4/wgq_req_rgq_031309_anr_tpw.doc TransCanada: http://www.naesb.org/pdf4/wgq_req_rgq_031309_transcanada_tpw.doc Dominion Transmission: http://www.naesb.org/pdf4/wgq_req_rgq_031309dti.doc
5.	Review and vote on WGQ Request for Formal Comments on Recommendation: 2009 WGQ Annual Plan Item 9 - "Review minimum technical characteristics in Appendices B, C, and D of the WGQ QEDM Manual, and make changes as appropriate", (super-majority vote) • Recommendation: http://www.naesb.org/pdf4/2009_wgq_ap9_rec.doc • Comments due April 13, 2009: Dominion Gas Transmission: http://www.naesb.org/pdf4/wgq_031309dti.doc

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

Thursday May 14, 2009 – 9:00 a.m. to 3:00 p.m. E

ACES Power, Carmel, IN

#	Agenda Item
6.	Review and vote on 2007 WGQ Annual Plan Item 7.a, 2008 WGQ Annual Plan Item 4.a.ii, 2009 WGQ Annual Plan Item 3.a.i , 2008 WGQ Annual Plan Items 9, 2009 WGQ Annual Plan Item 4, R07018, R08019 and R08024 (super-majority vote). A presentation will be made summarizing the standards changes in this recommendation and will be web cast. The presentation will be posted on the NAESB web site directly after the meeting. • Recommendation: http://www.naesb.org/pdf4/wgq_2007ap7a_2008ap4a_2009ap4_2008ap9_2009ap3a_r07018_r08019_r08024_rec.doc • Attachment 1: http://www.naesb.org/pdf4/wgq_2007ap7a_2008ap4a_2009ap4_2008ap9_2009ap3a_r07018_r08019_r08024_rec_attach1.doc • Attachment 2: http://www.naesb.org/pdf4/wgq_2007ap7a_2008ap4a_2009ap4_2008ap9_2009ap3a_r07018_r08019_r08024_rec_attach2.doc • Attachment 3: http://www.naesb.org/pdf4/wgq_2007ap7a_2008ap4a_2009ap4_2008ap9_2009ap3a_r07018_r08019_r08024_rec_attach3.doc • **Comments due May 11, 2009**: as comments are received, they will be posted and an updated agenda with links will be issued as the meeting date approaches.
7.	Review and Possible Vote on Minor Correction Recommendations [*Additional minor correction recommendations for code value changes may be made be prepared and submitted for consideration as the meeting date approaches and as such, several of the requests for code value changes are shown below. They will be provided either as supplements or though an updated agenda and links depending on the time received. The minor corrections that are not code value changes (to be applied to Version 1.8 or the final actions for Version 1.9) are prepared and ready for vote in their request form. As more of these MCs are forwarded they will be posted for consideration]*: (simple majority vote) *Minor Corrections – Code Value Changes* • Recommendation MC04027 (R04027) et al submitted by Williams Gas Pipeline: http://www.naesb.org/pdf4/wgq_ec051409w16.doc • Request MC08009 (R08009) submitted by Williams Gas Pipeline: http://www.naesb.org/pdf4/wgq_ec051409w5.doc • Recommendation MC08012 (R08012) submitted by Northern Natural Gas: http://www.naesb.org/pdf4/wgq_ec051409w10.doc • Recommendation MC08013 (R08013) and MC08014 (R08014) submitted by Kinder Morgan Energy Partners: http://www.naesb.org/pdf4/wgq_ec051409w11.doc • Recommendation MC08014 (R08014) submitted by Kinder Morgan Energy Partners: http://www.naesb.org/pdf4/wgq_mc08014_rec_042009.doc • Recommendation MC08016 (R08016) submitted by Northern Natural Gas: http://www.naesb.org/pdf4/wgq_ec051409w13.doc • Recommendation MC08017 (R08017) submitted by Boardwalk Pipeline Partners and Texas Gas Transmission: http://www.naesb.org/pdf4/wgq_ec051409w12.doc • Recommendation MC08018 (R08018) submitted by Boardwalk Pipeline Partners and Texas Gas Transmission: http://www.naesb.org/pdf4/wgq_mc08018.doc • Recommendation MC08022 (R08022) submitted by Northern Natural Gas: http://www.naesb.org/pdf4/wgq_ec051409w14.doc • Request MC08023 (R008023) submitted by Enbridge Energy Partners: http://www.naesb.org/pdf4/wgq_mc08023.doc • Request MC09001 submitted by Northern Natural Gas: http://www.naesb.org/pdf4/wgq_ec051409w1.doc • Request MC09003 submitted by Williams Gas Pipeline and Spectra Energy Transmission: http://www.naesb.org/pdf4/wgq_ec051409w3.doc • Request MC09005 submitted by ANR Pipeline: http://www.naesb.org/pdf4/wgq_ec051409w6.doc

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

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

Thursday May 14, 2009 – 9:00 a.m. to 3:00 p.m. E

ACES Power, Carmel, IN

#	Agenda Item

Minor Corrections Applicable to WGQ Version 1.8

- Request MC09002 submitted by Williams Gas Pipeline: http://www.naesb.org/pdf4/wgq_ec051409w2.doc
- Request MC09007 submitted by NAESB WGQ Technical Subcommittee: http://www.naesb.org/pdf4/wgq_ec051409w8.doc
- Request MC09008 submitted by Williams Gas Pipeline: http://www.naesb.org/pdf4/wgq_ec051409w9.doc
- Request MC09010 submitted by El Paso Natural Gas: http://www.naesb.org/pdf4/wgq_mc09010.doc
- Request MC09011 submitted by El Paso Natural Gas: http://www.naesb.org/pdf4/wgq_mc09011.doc
- Request MC09012 submitted by Williams Gas Pipeline: http://www.naesb.org/pdf4/wgq_ec051409w19.doc

Minor Corrections Applicable to Final Actions for WGQ Version 1.9

- Request MC09004 submitted by Williams Gas Pipeline regarding R05017: http://www.naesb.org/pdf4/wgq_ec051409w4.doc
- Request MC09006 submitted by Williams Gas Pipeline: http://www.naesb.org/pdf4/wgq_ec051409w7.doc
- Request MC09009 submitted by Williams Gas Pipeline: http://www.naesb.org/pdf4/wgq_ec051409w15.doc
- Request MC090013 submitted by Williams Gas Pipeline: http://www.naesb.org/pdf4/wgq_ec051409w20.doc

8. Update on WGQ Publication Schedule: http://www.naesb.org/misc/wgq_publication_schedule_032009.doc
   - WGQ EC Conference Call in June/July to address outstanding recommendations for Version 1.9

     Pending Recommendation R04014: http://www.naesb.org/pdf4/r04014_rec.doc **with comments due May 26**

     Pending Recommendations for WGQ EDM Activities: http://www.naesb.org/pdf4/r09002_r09007_rec.doc (R09002, R09007), http://www.naesb.org/pdf4/r09005_rec.doc (R09005), http://www.naesb.org/pdf4/wgq_2008_ap8_wgq_2009_ap7_rec.doc (WGQ 2008 AP8 and WGQ 2009 AP7), **with comments due June 3**
9. Subcommittee Updates (meeting materials for updates will be provided by leadership as they are available):
   - Triage Subcommittee: http://www.naesb.org/pdf4/tr040809disposition.doc
   - Business Practices Subcommittee (BPS)
   - Electronic Delivery Mechanisms Subcommittee (EDM)
   - Information Requirements Subcommittee (IR)
   - Technical Subcommittee
   - Interpretations Subcommittee
   - Contracts Subcommittee
10. Review, discuss, identify changes and vote to approve changes to the 2009 Annual Plan to be proposed to the Board of Directors: http://www.naesb.org/pdf4/draft_wgq_2009_annual_plan.doc (simple majority vote for EC endorsement of proposed changes to be forwarded for Board approval)
11. Board of Directors, Board Committee and Regulatory Updates (no votes or action to be taken):
    - Board Updates - http://www.naesb.org/pdf4/bd032609dm.doc (March 26, 2009)
    - Retail and Wholesale Electric key activities – Retail Annual Plan, WEQ Annual Plan - http://www.naesb.org/pdf4/draft_retail_2009_annual_plan.doc (Retail), http://www.naesb.org/pdf4/draft_weq_2009_annual_plan.doc (WEQ)
    - Update on Board Retail Structure Review Committee efforts – http://www.naesb.org/pdf4/rsrc011509w2.doc
    - FERC Efforts:
      FERC Final Rule on WGQ Version 1.8 issued February 24, 2009: http://www.naesb.org/pdf4/ferc022409_wgq_v1.8.doc

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

Thursday May 14, 2009 – 9:00 a.m. to 3:00 p.m. E

ACES Power, Carmel, IN

#	Agenda Item
12.	Other Business
13.	Adjourn

Attire – Business Casual

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February 4, 2009

TO: NAESB Quadrant Executive Committee Members, Alternates and Interested Industry Participants

FROM: Cory Galik Cummings, Staff Attorney

RE: Retail Executive Committee Meeting Draft Minutes

NORTH AMERICAN ENERGY STANDARDS BOARD
RETAIL EXECUTIVE COMMITTEE MEETING
February 4, 2009
DRAFT MINUTES

1. Welcome

Mr. Novak called the meeting to order at 10:00 am MT and welcomed the Retail Electric (REQ) and Retail Gas (RGQ) Executive Committee (EC) members and other participants. Ms. Cummings gave the antitrust guidance and REQ and RGQ members and other participants introduced themselves. Quorum was established. Mr. Novak reviewed the agenda. Ms. Kiselewich moved to adopt the agenda and Mr. Precht seconded the motion. The motion passed without opposition.

2. Retail Quadrant Draft Minutes

The November 5, 2008 Retail EC meeting minutes were reviewed. Ms. Kiselewich moved to adopt the minutes and Ms. Edwards seconded the motion. The motion passed unanimously. The final minutes are posted at the following link: http://www.naesb.org/pdf4/retail_ec012109fm.doc. The January 21, 2009 Retail EC meeting minutes were reviewed. Mr. Precht was added to the attendee list. The motion to adopt the minutes was made by Mr. Precht and seconded by Ms. Munson. The motion passed unanimously. The final minutes are posted at the following link: http://www.naesb.org/pdf4/retail_ec012109fm.doc.

3. Discussion, consideration and vote on recommendation

Ms. Munson moved, and Mr. Minneman seconded the motion, to adopt all four of the recommendations below.

Recommendation 2008 Retail Annual Plan Item 2a, Part 1 - Customer Enrollment, Drop and Account Information Change including Using a Registration Agent (Technical X12 Implementation Guidelines): No further changes were made to the recommendation.

Recommendation 2008 Retail Annual Plan Item 2a, Part 2 - Customer Enrollment, Drop and Account Information Change including Using a Registration Agent (Data Dictionaries): No further changes were made to the recommendation.

Recommendation 2008 Retail Annual Plan Item 3(iv) and (v), Part 1 - ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Model Business Practices) and Attachment: Attachment: Mr. Jones recommended a change to RXQ.11.3.8.1 to clarify any potential confusion between account information changes and ESI ID information change. Ms. Munson and Mr. Minneman accepted that change as a friendly amendment to the recommendation.

Recommendation 2008 Retail Annual Plan Item 3(iv) and (v), Part 2 - ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries): No further changes were made to the recommendation.

There was no discussion on the recommendation other than that posed for the modification noted above. All four recommendations passed a super majority vote without the need for notational ballots.

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4. Discussion, consideration and vote on minor corrections submitted by the Retail BPS

Mr. Precht provided the review of the minor corrections that were voted out at the last EC meeting. At that time there were changes to the process flows for billing and payments that were needed but the BPS was unable to find the source documents. Ms. Edwards re-created those process flows, which were reviewed and edited by the BPS. A motion to adopt the minor corrections was made by Mr. Precht and seconded by Mr. Eynon. The motion unanimously passed a simple majority voted. Ms. McQuade reviewed the minor corrections process.

5. Retail Publication Schedule Discussion

The four recommendations that were voted out today will be added to the next retail publication. It is anticipated that the Version 1.1 publication will be published in the second quarter of 2009. In order to meet that deadline, the ratifications and minor corrections must be complete in May to allow time for review in June of the items to be published. By the May 13 Retail EC meeting, all recommendations that will be present in the upcoming publication will have been processed. A question was raised regarding the status of the work on the Texas Registration Agent. Ms. Rager stated that Ms. Teele has completed the technical implementation and data dictionary for the Customer Information section. This work will go out for a 30 day formal comment period. The work on Customer Enrollment Drop for the non-Texas model was developed but in need of modification. Ms. Teele would address that work, which may not be complete in time for this publication. Mr. Novak suggested scheduling a tentative EC call in late April to address any items that may be ready at that time for the publication. If there are no items at that time, the call can be cancelled. [*There was no conference call held for the tentatively scheduled April 22 date.]*

6. DSM-EE Efforts

Ms. McQuade provided the review of the DSM-EE efforts. The Wholesale Electric Quadrant (WEQ) DR standards are currently out for notational ballot. There was significant discussion on this topic at yesterday's WEQ EC meeting which led to an additional item on the WEQ Annual Plan (AP) to indicate that additional WEQ technical work was needed now that the first set of standards were complete – to add granularity to the base of standards. Ms. McQuade did not expect opposition on the recommendation. Once the retail work group has a recommendation to present, a DSM-EE subcommittee meeting will be scheduled. Mr. Precht noted that the retail work group was meeting every other Thursday from 9:00 am to 11:00 a.m. Central in an effort to meet the second quarter completion deadline. There has been some consideration to create commodity neutral retail standards. The purpose is not to create model business practices for the retail gas industry but to avoid precluding a future review of the standards if the retail gas industry develops standards in the future. Ms. McQuade asked Mr. Novak to contact the American Gas Association and other retail gas participants who are not currently involved in the drafting of the recommendation to determine if it is premature for the retail gas quadrant to develop DSM-EE standards. A decision may be made to make these standards commodity neutral or the state commissioners may make a decision on that issue irrespective of NAESB. Mr. Novak stated that he would address this issue.

[At the Board meting on March 26, the retail gas quadrant Board members supported a request by Mr. Novak to remove all references to retail gas in assignments of development of DSM-EE standards, as the retail gas participants have determined it is too premature for them to develop DSM-EE standards.]

7. Subcommittee Updates and Plan Updates

Triage Subcommittee: Ms. Mcquade noted that new requests have been submitted to the subcommittee and that these requests will be reviewed at a later date.

Business Practice Subcommittee: The BPS held some meetings with the WGQ contracts subcommittee to revise the proposed Trading Partner Agreement (TPA). This is an activity primarily conducted by the WGQ but the retail quadrant has been participating as they share the TPA standard. The intent of the change is to simplify the agreement by changing the exhibits section into a worksheet format so it can be more easily modified. The worksheet will contain the more technical data. The work is expected to be complete in the first quarter. Mr. Novak

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expressed concern with moving the list of the data sets into the worksheet because a change in the data sets may require legal review. He advocated the insertion of frequently asked questions (FAQ) to alert users of the new format. Mr. Precht said that there had been discussion to add FAQs, but a decision has not been made yet.

The BPS has met several times since the last EC meeting and voted out several recommendations. The next conference call is scheduled for March 6. The group is focused on Customer Inquiries and Ms. Edwards is in the process of developing process flows for Customer Inquiries and Billing and Payments.

Technical Electronic Implementation Subcommittee (TEIS) and Texas Task Force: Ms. McKeever provided the update. The groups will review the transactions and ERCOT protocols to ensure the work they are producing is comprehensive and there are no gaps in the MBPs. MBPs for flow diagrams and technical guidelines should be developed for Service Requests, which is included in the AP 2009 Item 8(a) with a fourth quarter completion deadline.

Glossary Subcommittee: Mr. Eynon provided the review for the Glossary Subcommittee. In the meetings held since the last EC meeting four new definitions were developed and approved. NAESB is working with NERC to ensure there are no inconsistencies and to determine whether or not there are any substantive differences between the definitions of the two organizations as it applies to the WEQ. While there have not been any inconsistencies with NERC, the group has found internal issues which made the project larger than originally anticipated. Once the WEQ is further along with that work, they will work with the retail quadrants to identify and resolve discrepancies between REQ and WEQ.

8. Review, discuss, identify changes and vote to approve changes to the 2009 Annual Plan to be proposed to the Board of Directors.

Ms. McQuade suggested several changes to the 2009 Annual Plan related to DSM-EE and those changes can be found at the following link: http://www.naesb.org/pdf4/retail_ec020409a11.doc. An item was inserted between Item 4(a) and (b) to develop more detailed technical standards for the M&V of DR products and services in ISO/RTO footprint areas. The scope will be initiated in the second quarter of 2009 and the completion date will be scheduled at that time. The item is still identified as joint between WEQ and Retail. *[This was addressed at the March 26 Board meeting in which all RGQ references were removed.]* AP Items 4(a) and (b) will be filed with the FERC while 4(e) will be made available to NARUC and state commissioners. Some of the retail DR programs feed into the wholesale products and services, and some of the retail standards will refer to the ISO/RTO operating manuals. The motion to adopt the changes to the AP was made by Ms. Kiselewich and seconded by Mr. Jones. The motion passed unanimously.

9. Board of Directors, Board Committee and Regulatory Updates

Board Updates: Ms. McQuade urged participants to review the minutes from the December 18, 2008 Board meeting.

Wholesale Gas and Electric key activities – WGQ Annual Plan, WEQ Annual Plan: Mr. Novak noted there was very little standard development occurring at this time. Most of the WGQ work revolved around the technical committees work to support FERC Order Nos. 712 and 698. The WEQ has several key areas of development, including DSM-EE. This month the WEQ will file the remainder of the deadline related work for the FERC Order No. 890.

Update on Board Retail Structure Review Committee efforts: The Retail Structure Review Committee is currently considering modifications to segments and collapsing some of the segments so that they could more appropriately reflect the retail market. The committee will provide an update to the NAESB Board during its March 26 meeting.

April 1-2, 2009 Workshop Announcement: NAESB will host a two-day workshop at the MGM Grand in Las Vegas, Nevada. Mr. Boswell, NAESB General Counsel will teach a half day class dealing with NAESB Roles and Responsibilities. Mr. Miles of FERC will host a day and a half course that relates to negotiation skills. There will

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be no charge to attend the class and is available on a first come-first serve basis. More details are to follow from the NAESB office.

Advisory Council Meeting February 14, 2009- The NAESB Advisory Council Meeting will be held in conjunction with the Winter NARUC meeting on February 14, 2009. The NARUC Winter Session is take place February 15-18, 2009.

10. Other Business

NAESB Board and Executive Committee 2009 Meeting Schedule: The participants were encouraged to review the NAESB Board and EC 2009 Meeting Schedule. The meeting schedule is available for viewing via the following link: http://naesb.org/pdf4/2009_Brd_EC_Schedule.doc.

11. Adjourn

Ms. Kiselewich moved to adjourn the meeting. The meeting adjourned at 12:16 PM Mountain.

12. Attendance and Vote Record

RETAIL GAS QUADRANT EXECUTIVE COMMITTEE		ATTENDANCE	VOTE ON THE RECOMMENDATIONS
SUPPLIERS SEGMENT			
Richard Zollars	Dominion Retail, Inc.		
DISTRIBUTION SEGMENT			
Dan Jones	Duke Energy	Phone	In Favor
Leslie H. Nishida	Wisconsin Public Service Corporation	Phone	In Favor
Michael Novak	National Fuel Gas Distribution Corporation	Phone	In Favor
Phil Precht	Baltimore Gas and Electric Company	Phone	In Favor
END USER SEGMENT			
SERVICE PROVIDERS SEGMENT			

RETAIL ELECTRIC QUADRANT EXECUTIVE COMMITTEE		ATTENDANCE	VOTE ON THE RECOMMENDATIONS
SUPPLIERS SEGMENT			
Bill Barkas	Dominion Retail, Inc.		
Jansen Pollock	Constellation NewEnergy		
DISTRIBUTION SEGMENT			
Ruth Kiselewich	Baltimore Gas and Electric Company	Phone	In Favor
Patrick Eynon	Ameren Services	Phone	In Favor
Judy Ray	Alabama Power Company	Phone	In Favor
Mary Edwards	Dominion Virginia Power	Phone	In Favor
END USER SEGMENT			
SERVICE PROVIDERS SEGMENT			
Jim Minneman	PPL Solutions, LLC	Phone	In Favor

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RETAIL ELECTRIC QUADRANT EXECUTIVE COMMITTEE		ATTENDANCE	VOTE ON THE RECOMMENDATIONS
Jennifer Teel	EC Power		
Susan Munson	Electric Reliability Council of Texas	Phone	In Favor

Other Participant Attendance

Participant	Organization	Attendance
Cory Cummings	NAESB	In Person
Bill Lohrman	FERC	In Person
Debbie McKeever	ONCOR	In Person
Rae McQuade	NAESB	In Person
Denise Rager	NAESB	In Person
Veronica Thomason	NAESB	In Person
Jill Webb		In Person

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

1. RECOMMENDED ACTION:

X	Accept as requested
	Accept as modified below
	Decline

EFFECT OF EC VOTE TO ACCEPT RECOMMENDED ACTION:

	Change to Existing Practice
X	Status Quo

2. TYPE OF DEVELOPMENT/MAINTENANCE

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

3. RECOMMENDATION

SUMMARY:

The Joint Retail Electric and Retail Gas Quadrants' Retail Texas Task Force submits this Recommendation for the 2009 Annual Plan Item 1/R05016: Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions. The Technical X12 Implementation Guidelines and Data Dictionaries support the Model Business Practices: R05016 - Customer Billing and Payment Notification via Uniform Electronic Transactions.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

RECOMMENDED STANDARDS:

Technical X12 Implementation Guidelines and Data Dictionaries ..... pages 3-57
RXQ.9.6.1 Customer Invoice 3-57
Data Dictionary 58-60
RXQ.9.6.2 Customer Payment (Order/Remittance Advice) 61-76
Data Dictionary 77

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

810 NAESB RXQ.9.6.1 Customer Invoice

Functional Group ID=IN

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BIG	Beginning Segment for Invoice	M	1		
	030	NTE	Note/Special Instruction	O	100		
	050	REF	Customer Account ID (REF~12/Q5)	O	12		
	050	REF	Supplier Account Number (REF~11)	O	12		
	050	REF	Original Invoice ID (REF~OI)	O	12		
	050	REF	Party Sending Bill (REF~BLT)	O	12		
			LOOP ID - N1			200	
	070	N1	Customer Name (N1~BT)	O	1		
	080	N2	Additional Name Information	O	2		
	090	N3	Address Information	O	2		
	100	N4	Geographic Location	O	1		
	120	PER	Administrative Communications Contact	O	3		
			LOOP ID - N1			200	
	070	N1	Party to Return Payment To (N1~RE)	O	1		
	080	N2	Additional Name Information	O	2		
	090	N3	Address Information	O	2		
	100	N4	Geographic Location	O	1		
	120	PER	Administrative Communications Contact	O	3		
			LOOP ID - N1			200	
	070	N1	Distribution Company(N1~8S)	O	1		
	120	PER	Administrative Communications Contact	O	3		
			LOOP ID - N1			1	
	140	N1	Supplier (N1~SJ)	O	1		
	145	PER	Administrative Communications Contact	O	1		
	155	ITD	Terms of Sale/Deferred Terms of Sale	O	1		
	212	BAL	Previous Bill Amount (BAL~P~YB)	O	>1		

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters: **Retail Texas Task Force**
Request No.: **2009 Annual Plan Item 1 / R05016:**
Request Title: **Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

	212	BAL	Outstanding Balance Prior to Current Charges (BAL~M~J9)	O	>1		
	212	BAL	Payments Since Last Bill (BAL~P~TP)	O	>1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - IT1			200000	
M	010	IT1	Baseline Item Data (Invoice)	M	1		
	040	TXI	Tax Information	O	10		
	059	MEA	Measurements	O	40		
	120	REF	Meter Number (REF~MG)	O	>1		
	120	REF	Distribution Company Rate Code (REF~NH)	O	>1		
	123	REF	Old Meter Number (REF~46)	O	1		
	124	REF	Supplier Rate Code (REF~RB)	O	1		
	150	DTM	Service Period Start Date (DTM~150)	O	10		
	150	DTM	Service Period End Date (DTM~151)	O	10		
			LOOP ID - SLN			1000	
	200	SLN	Subline Item Detail	O	1		
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	25		
	237	TXI	Tax Information	O	10		
			LOOP ID - N1			200	
	240	N1	Customer Service Address (N1~MQ)	O	1		
	250	N2	Additional Name Information	O	2		
	260	N3	Address Information	O	2		
	270	N4	Geographic Location	O	1		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	TDS	Total Monetary Value Summary	M	1		
	070	CTT	Transaction Totals	O	1		n1
M	080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: REQUIRED
ST~810~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code values.	**M ID 3/3**
M	**ST02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M AN 4/9**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **BIG** **Beginning Segment for Invoice**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates
Syntax Notes:
Semantic Notes:
1 BIG01 is the invoice issue date.
2 BIG03 is the date assigned by the purchaser to purchase order.
3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.
Comments:
1 BIG07 is used only to further define the type of invoice when needed.
Notes: REQUIRED
BIG~20061101~123456061101~~~~~PR~00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**BIG01**	**373**	**Date** Date expressed as CCYYMMDD Invoice Date	**M DT 8/8**
M	**BIG02**	**76**	**Invoice Number** Identifying number assigned by issuer Unique number associated with this invoice. Many customers require this to be the account number plus the invoice date to make a unique invoice number. This complete number or simply the account number should be returned on the 820.	**M AN 1/22**
M	**BIG07**	**640**	**Transaction Type Code** Code specifying the type of transaction FB Final Bill PR Product (or Service)	**M ID 2/2**
M	**BIG08**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 00 Original 01 Cancellation	**M ID 2/2**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **NTE** **Note/Special Instruction**
Position: 030
Loop:
Level: Heading
Usage: Optional
Max Use: 100
Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction
Syntax Notes:
Semantic Notes:
Comments: **1** The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.
Notes: OPTIONAL
NTE~ADD~REGULATORY, UTILITY OR SUPPLIER MESSAGES

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**NTE01**	**363**	**Note Reference Code** Code identifying the functional area or purpose for which the note applies ADD Additional Information	**M ID 3/3**
M	**NTE02**	**352**	**Description** A free-form description to clarify the related data elements and their content	**M AN 1/80**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **REF** **Customer Account ID (REF~12/Q5)**
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: REQUIRED

Distribution Company ID that identifies the Customer. In a deregulated marketplace, governing documents define whether REF~12 or REF~Q5 is required.

- REF~12 uses REF02 for Distribution Company Account Number
- REF~Q5 uses REF03 for Service Delivery ID (ERCOT)

REF~12~2931839200
REF~Q5~~1011111234567890ABCDEFGHIJKLMNOPQRS

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 12 Billing Account Account number under which billing is rendered Account number assigned by the Distribution Company Q5 Property Control Number Service Delivery ID	**M ID 2/3**
	REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier REF01 = 12: Distribution Company Account Number REF01 = Q5: Not Used	**X AN 1/30**
	REF03	**352**	**Description** A free-form description to clarify the related data elements and their content REF01 = 12: Not Used REF01 = Q5: Service Delivery ID	**X AN 1/80**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **REF** **Supplier Account Number (REF~11)**
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: REQUIRED if available and supplier charges are on the bill.
REF~11~SUPPLIER CUSTACCTNR

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account Customers Account number assigned by the Supplier	**M ID 2/3**
	REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Supplier Account Number	**X AN 1/30**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **REF** **Original Invoice ID (REF~OI)**
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: REQUIRED on a cancel invoice to reference the original invoice number
REF~OI~12345620061101

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification OI Original Invoice Number	**M ID 2/3**
	REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Original Invoice Number	**X AN 1/30**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **REF** **Party Sending Bill (REF~BLT)**
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Optional
REF~BLT~DUAL

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification BLT Billing Type	**M ID 2/3**
	REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier DUAL Each party - Supplier and Distribution Company - sends separate bill to customer ESP Suppliers sends bill to customer LDC Distribution Company sends bill to customer	**X AN 1/30**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **N1** **Customer Name (N1~BT)**
Position: 070
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: REQUIRED
Identifies Customer's Billing Name
N1~BT~CUSTOMER NAME

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual BT Bill-to-Party	**M ID 2/3**
	N102	**93**	**Name** Free-form name	**X AN 1/60**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **N2** **Additional Name Information**
Position: 080
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Notes: OPTIONAL
N2~ADDITIONAL NAME

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N201**	**93**	**Name** Free-form name	**M AN 1/60**
	N202	**93**	**Name** Free-form name	**O AN 1/60**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **N3** **Address Information**
Position: 090
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: OPTIONAL
N3~1234 BILLING STREES~PO BOX 99

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N301**	**166**	**Address Information** Address information	**M AN 1/55**
	N302	**166**	**Address Information** Address information	**O AN 1/55**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **N4** **Geographic Location**
Position: 100
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
Comments: **1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: OPTIONAL
N4~HOUSTON~TX~75056

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N401	**19**	**City Name** Free-form text for city name	**O AN 2/30**
N402	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	**O ID 2/2**
N403	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	**O ID 3/15**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **PER** **Administrative Communications Contact**
Position: 120
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes: **1** If either PER03 or PER04 is present, then the other is required.
2 If either PER05 or PER06 is present, then the other is required.
3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:
Comments:
Notes: REQUIRED
PER~IC~BILL TO CONTACT~TE~7137704654

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**PER01**	**366**	**Contact Function Code** Code identifying the major duty or responsibility of the person or group named IC Information Contact	**M ID 2/2**
	PER02	**93**	**Name** Free-form name	**O AN 1/60**
	PER03	**365**	**Communication Number Qualifier** Code identifying the type of communication number TE Telephone	**X ID 2/2**
	PER04	**364**	**Communication Number** Complete communications number including country or area code when applicable Bill to Contact Telephone Number	**X AN 1/80**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **N1** **Party to Return Payment To (N1~RE)**
Position: 070
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: REQUIRED
Identifies the Party to return Payment to
N1~RE~REMIT TO PARTY~1~111111111

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual RE Party to receive commercial invoice remittance	**M ID 2/3**
	N102	**93**	**Name** Free-form name	**X AN 1/60**
	N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	**X ID 1/2**
	N104	**67**	**Identification Code** Code identifying a party or other code	**X AN 2/80**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **N2** **Additional Name Information**
Position: 080
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Notes: OPTIONAL
N2~ADDITIONAL NAME

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N201**	**93**	**Name** Free-form name	**M AN 1/60**
	N202	**93**	**Name** Free-form name	**O AN 1/60**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **N3** **Address Information**
Position: 090
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: OPTIONAL
N3~1234 STREET~PO BOX 11

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N301**	**166**	**Address Information** Address information	**M AN 1/55**
	N302	**166**	**Address Information** Address information	**O AN 1/55**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **N4** **Geographic Location**
Position: 100
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
Comments: **1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: OPTIONAL
N4~CITY~ST~99110

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N401	**19**	**City Name** Free-form text for city name	**O AN 2/30**
N402	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	**O ID 2/2**
N403	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	**O ID 3/15**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **PER** **Administrative Communications Contact**
Position: 120
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes: **1** If either PER03 or PER04 is present, then the other is required.
2 If either PER05 or PER06 is present, then the other is required.
3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:
Comments:
Notes: REQUIRED
PER~CR~REMIT TO CONTACT~TE~7137704654

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**PER01**	**366**	**Contact Function Code** Code identifying the major duty or responsibility of the person or group named CR Customer Relations	**M ID 2/2**
	PER02	**93**	**Name** Free-form name	**O AN 1/60**
	PER03	**365**	**Communication Number Qualifier** Code identifying the type of communication number TE Telephone	**X ID 2/2**
	PER04	**364**	**Communication Number** Complete communications number including country or area code when applicable Remit to Contact Phone Number	**X AN 1/80**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **N1** **Distribution Company(N1~8S)**
Position: 070
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: REQUIRED
Identifies Distribution Company with charges on the bill
N1~8S~DISTRIBUTION CO~1~999999999

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP)	**M ID 2/3**
	N102	**93**	**Name** Free-form name	**X AN 1/60**
	N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	**X ID 1/2**
	N104	**67**	**Identification Code** Code identifying a party or other code	**X AN 2/80**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **PER** **Administrative Communications Contact**
Position: 120
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes: **1** If either PER03 or PER04 is present, then the other is required.
2 If either PER05 or PER06 is present, then the other is required.
3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:
Comments:
Notes: OPTIONAL
PER~IC~DISTRIBUTION COMPANY CONTACT~TE~7132279837

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**PER01**	**366**	**Contact Function Code** Code identifying the major duty or responsibility of the person or group named IC Information Contact	**M ID 2/2**
	PER02	**93**	**Name** Free-form name	**O AN 1/60**
	PER03	**365**	**Communication Number Qualifier** Code identifying the type of communication number TE Telephone	**X ID 2/2**
	PER04	**364**	**Communication Number** Complete communications number including country or area code when applicable	**X AN 1/80**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **N1** **Supplier (N1~SJ)**
Position: 140
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: REQUIRED if this is a deregulated marketplace
N1~SJ~SUPPLIER~1~111111111

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual SJ Service Provider Identifies name and address information as pertaining to a service provider for which billing is being rendered	**M ID 2/3**
	N102	**93**	**Name** Free-form name	**X AN 1/60**
	N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) Refer to 004010 Data Element Dictionary for acceptable code values.	**X ID 1/2**
	N104	**67**	**Identification Code** Code identifying a party or other code	**X AN 2/80**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **PER** **Administrative Communications Contact**
Position: 145
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes: **1** If either PER03 or PER04 is present, then the other is required.
2 If either PER05 or PER06 is present, then the other is required.
3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:
Comments:
Notes: OPTIONAL
PER~IC~SUPPLIER CONTACT~TE~7134039900

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**PER01**	**366**	**Contact Function Code** Code identifying the major duty or responsibility of the person or group named IC Information Contact	**M ID 2/2**
	PER02	**93**	**Name** Free-form name	**O AN 1/60**
	PER03	**365**	**Communication Number Qualifier** Code identifying the type of communication number TE Telephone	**X ID 2/2**
	PER04	**364**	**Communication Number** Complete communications number including country or area code when applicable	**X AN 1/80**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **ITD** **Terms of Sale/Deferred Terms of Sale**
Position: 155
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify terms of sale
Syntax Notes:
1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.
2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.
Semantic Notes:
1 ITD15 is the percentage applied to a base amount used to determine a late payment charge.
Comments:
1 If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.
Notes: REQUIRED
ITD~~~~~~20081012

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ITD06	**446**	**Terms Net Due Date** Date when total invoice amount becomes due expressed in format CCYYMMDD Payment Due Date	**O DT 8/8**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

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Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **BAL** **Previous Bill Amount (BAL~P~YB)**
Position: 212
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To identify the specific monetary balances associated with a particular account
Syntax Notes:
Semantic Notes:
Comments:
Notes: OPTIONAL
Total Amount of Previous Bill
BAL~P~YB~150.00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**BAL01**	**951**	**Balance Type Code** Code indicating the type of balance P Previous Month Balance of previous period charges prior to applying payments and adjustments for the previous period billing	**M ID 1/2**
M	**BAL02**	**522**	**Amount Qualifier Code** Code to qualify amount YB Actual Unpaid Principal Balance	**M ID 1/3**
M	**BAL03**	**782**	**Monetary Amount** Monetary amount	**M R 1/18**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **BAL** **Outstanding Balance Prior to Current Charges (BAL~M~J9)**
Position: 212
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To identify the specific monetary balances associated with a particular account
Syntax Notes:
Semantic Notes:
Comments:
Notes: OPTIONAL
Outstanding Balance prior to current period charges
BAL~M~J9~100.00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**BAL01**	**951**	**Balance Type Code** Code indicating the type of balance M Current Month	**M ID 1/2**
M	**BAL02**	**522**	**Amount Qualifier Code** Code to qualify amount J9 Beginning Balance	**M ID 1/3**
M	**BAL03**	**782**	**Monetary Amount** Monetary amount	**M R 1/18**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **BAL** **Payments Since Last Bill (BAL~P~TP)**
Position: 212
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To identify the specific monetary balances associated with a particular account
Syntax Notes:
Semantic Notes:
Comments:
Notes: OPTIONAL
Total Payments received since last bill
BAL~P~TP~50.00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**BAL01**	**951**	**Balance Type Code** Code indicating the type of balance P Previous Month Balance of previous period charges prior to applying payments and adjustments for the previous period billing	**M ID 1/2**
M	**BAL02**	**522**	**Amount Qualifier Code** Code to qualify amount TP Total payment amount	**M ID 1/3**
M	**BAL03**	**782**	**Monetary Amount** Monetary amount	**M R 1/18**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **IT1** **Baseline Item Data (Invoice)**
Position: 010
Loop: IT1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions
Syntax Notes:
1 If any of IT102 IT103 or IT104 is present, then all are required.
2 If either IT106 or IT107 is present, then the other is required.
3 If either IT108 or IT109 is present, then the other is required.
4 If either IT110 or IT111 is present, then the other is required.
5 If either IT112 or IT113 is present, then the other is required.
6 If either IT114 or IT115 is present, then the other is required.
7 If either IT116 or IT117 is present, then the other is required.
8 If either IT118 or IT119 is present, then the other is required.
9 If either IT120 or IT121 is present, then the other is required.
10 If either IT122 or IT123 is present, then the other is required.
11 If either IT124 or IT125 is present, then the other is required.
Semantic Notes:
1 IT101 is the purchase order line item identification.
Comments:
1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
2 IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
Notes:
REQUIRED
A separate IT1 loop is used for each party to the bill (e.g. Distribution Company, Supplier, Green Marketer, etc). IT1 loops are tied to a party by the DUNS number placed in IT101.
IT1~999999999~~~~~SV~ELECTRIC~C3~ACCOUNT

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
IT101	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set REQUIRED DUNS Number (or Entity ID) of party whose charges appear in this IT1 loop	**C AN 1/20**
IT106	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) SV Service Rendered	**X ID 2/2**
IT107	**234**	**Product/Service ID** Identifying number for a product or service ELECTRIC GAS	**X AN 1/48**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

		REFUSE			
		SEWER			
		WATER			
IT108	**235**	**Product/Service ID Qualifier**		**X**	**ID 2/2**
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		C3	Classification		
IT109	**234**	**Product/Service ID**		**X**	**AN 1/48**
		Identifying number for a product or service			
		ACCOUNT	Charges at a customer account level		
		METER	Charges at a meter level		
		RATE	Charges at a Rate level		
		UNMET	Charges at a unmeter level		

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **TXI** **Tax Information**
Position: 040
Loop: IT1 Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify tax information
Syntax Notes:
1 At least one of TXI02 TXI03 or TXI06 is required.
2 If either TXI04 or TXI05 is present, then the other is required.
3 If TXI08 is present, then TXI03 is required.
Semantic Notes:
1 TXI02 is the monetary amount of the tax.
2 TXI03 is the tax percent expressed as a decimal.
3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.
Comments:
Notes: OPTIONAL
Taxes that apply to the entire IT1 segment are shown in TXI position 040.
Taxes that do not apply to the entire IT1 segment, but do apply to specific charges are shown in TXI position 237.
Taxes that apply to the entire invoice are considered Account level taxes and are shown in TXI position 020. If an IT1 Account loop is used, account level taxes may appear within that loop.
TXI~ST~10~~~~~A

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**TXI01**	**963**	**Tax Type Code**		**M**	**ID 2/2**
			Code specifying the type of tax			
			CS	City Sales Tax		
			ET	Energy Tax		
				Tax applied to the utility and petroleum industries		
			FR	Franchise Tax		
				Tax imposed by municipality for the right to provide service		
			GR	Gross Receipts Tax		
			LO	Local Tax (Not Sales Tax)		
				Service tax imposed on a local level		
			LS	State and Local Sales Tax		
			ST	State Sales Tax		
	TXI02	**782**	**Monetary Amount**		**X**	**R 1/18**
			Monetary amount			
	TXI03	**954**	**Percent**		**X**	**R 1/10**
			Percentage expressed as a decimal			
	TXI06	**441**	**Tax Exempt Code**		**X**	**ID 1/1**

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Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Code identifying exemption status from sales and use tax

1	Yes (Tax Exempt)
2	No (Not Tax Exempt)

TXI07	**662**	**Relationship Code**	**O**	**ID 1/1**

Code indicating the relationship between entities

A	Add
O	Information Only

Charges which relate to but may not be included in or added to the unit price of the SLN. (i.e., compute WATS calculation based upon usage amounts)

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Segment: **MEA** **Measurements**
Position: 059
Loop: IT1 Mandatory
Level: Detail
Usage: Optional
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes:
OPTIONAL
MEA~~CO~1.02
MEA~~MU~1
MEA~AE~PRQ~KH~100~200~51
MEA~~ZA~1.32

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
MEA01	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies AA Meter reading-beginning actual/ending actual AE Meter reading-beginning actual/ending estimated BO Meter Reading as Billed Used when billing charges are based on contractual agreements or pre-established usage and not on actual usage EA Meter reading-beginning estimated/ending actual EE Meter reading-beginning estimated/ending estimated	**O ID 2/2**
MEA02	**738**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies CO Core Loss Transformer Loss Multiplier MU Multiplier PRQ Product Reportable Quantity Regular Usage ZA Power Factor	**O ID 1/3**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Request No.: **2009 Annual Plan Item 1 / R05016:**
Request Title: **Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

			Relationship between watts and volt - amperes necessary to supply electric load			
	MEA03	**739**	**Measurement Value** The value of the measurement When MEA02 = PRQ, represents quantity of consumption delivered for service period. Contains the difference in the meter readings (or as measured by the meter) multiplied by various factors (demand/consumption X meter multiplier), excluding Power Factor.	**X**	**R 1/20**	
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**		
M	**C00101**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	**M**	**ID 2/2**	
			CF Cubic Feet EA Each HH Hundred Cubic Feet ccf K1 Kilowatt Demand Represents potential power load measured at predetermined intervals K2 Kilovolt Amperes Reactive Demand Reactive power that must be supplied for specific types of customer's equipment; billable when kilowatt demand usage meets or exceeds a defined parameter K3 Kilovolt Amperes Reactive Hour Represents actual electricity equivalent to kilowatt hours; billable when usage meets or exceeds defined parameters K4 Kilovolt Amperes Measure of electrical power K5 Kilovolt Amperes Reactive Measure of electrical power KH Kilowatt Hour TD Therms TZ Thousand Cubic Feet Dekatherms			
	MEA05	**740**	**Range Minimum** The value specifying the minimum of the measurement range Beginning Reading	**X**	**R 1/20**	
	MEA06	**741**	**Range Maximum** The value specifying the maximum of the measurement range Ending Reading or Single Reading (i.e. Demand)	**X**	**R 1/20**	
	MEA07	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value 41 Off Peak 42 On Peak	**O**	**ID 2/2**	

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Request Title: **Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

43	Intermediate
45	Per Gallon
	Calculated Value was based on per gallon parameter or standard
	Summer On Peak
49	Mist
	Winter On Peak
50	Predominant
	Winter Mid Peak
51	Total
57	Boarded or Blocked Up
	Summer
58	Planned
	Winter
66	Sales
	Shoulder
71	Low
	Summer Super On Peak
73	Low to High
	Summer Off Peak
74	Low to Medium
	Summer Mid Peak
75	Low to Moderate
	Winter Off Peak
84	Good to High
	High Tension On Peak Energy
85	High
	High Tension Off Peak Energy
86	Budgeted
	Low Tension On Peak Energy
87	Forecast
	Low Tension Off Peak Energy
88	Adjusted
	Low Tension Total Energy
89	Allocated
	Low Tension Primary Demand
90	Increasing
	Low Tension Secondary Demand
91	Stable
	Low Tension Transmission Demand
92	Declining
	High Tension Total Energy
93	Previous
	High Tension Primary Demand

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94	Potential High Tension Transmission Demand

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Segment: **REF** **Meter Number (REF~MG)**
Position: 120
Loop: IT1 Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: REQUIRED if IT109 = METER and Meter Number is available
REF~MG~123456

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification MG Meter Number	**M ID 2/3**
	REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Meter Number	**X AN 1/30**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Segment: **REF** **Distribution Company Rate Code (REF~NH)**
Position: 120
Loop: IT1 Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: REQUIRED if available
REF~NH~RATE1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification NH Rate Card Number	**M ID 2/3**
	REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Distribution Company Rate Code	**X AN 1/30**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Segment: **REF** **Old Meter Number (REF~46)**
Position: 123
Loop: IT1 Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: OPTIONAL
REF~46~123456OLD

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 46 Old Meter Number Identifies meters being removed	**M ID 2/3**
	REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Old Meter Number	**X AN 1/30**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Segment: **REF** **Supplier Rate Code (REF~RB)**
Position: 124
Loop: IT1 Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: OPTIONAL
REF~RB~SUPRATE1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification RB Rate code number	**M ID 2/3**
	REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Supplier Rate Code	**X AN 1/30**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Request No.:	**2009 Annual Plan Item 1 / R05016:**
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Segment: **DTM** **Service Period Start Date (DTM~150)**
Position: 150
Loop: IT1 Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: REQUIRED
DTM~150~20061101

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 150 Service Period Start	**M ID 3/3**
	DTM02	**373**	**Date** Date expressed as CCYYMMDD Service Period Start Date	**X DT 8/8**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **DTM** **Service Period End Date (DTM~151)**
Position: 150
Loop: IT1 Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: REQUIRED
DTM~151~20061201

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 151 Service Period End	**M ID 3/3**
	DTM02	**373**	**Date** Date expressed as CCYYMMDD Service Period End Date	**X DT 8/8**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Segment: **SLN** **Subline Item Detail**
Position: 200
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify product subline detail item data
Syntax Notes:
1 If either SLN04 or SLN05 is present, then the other is required.
2 If SLN07 is present, then SLN06 is required.
3 If SLN08 is present, then SLN06 is required.
4 If either SLN09 or SLN10 is present, then the other is required.
5 If either SLN11 or SLN12 is present, then the other is required.
6 If either SLN13 or SLN14 is present, then the other is required.
7 If either SLN15 or SLN16 is present, then the other is required.
8 If either SLN17 or SLN18 is present, then the other is required.
9 If either SLN19 or SLN20 is present, then the other is required.
10 If either SLN21 or SLN22 is present, then the other is required.
11 If either SLN23 or SLN24 is present, then the other is required.
12 If either SLN25 or SLN26 is present, then the other is required.
13 If either SLN27 or SLN28 is present, then the other is required.
Semantic Notes:
1 SLN01 is the identifying number for the subline item.
2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.
Comments:
1 See the Data Element Dictionary for a complete list of IDs.
2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
Notes: REQUIRED
SLN~1~~A

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SLN01**	**350**	**Assigned Identification**	**M AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set	
M	**SLN03**	**662**	**Relationship Code**	**M ID 1/1**
			Code indicating the relationship between entities	
			A Add	

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Segment: **SAC** **Service, Promotion, Allowance, or Charge Information**
Position: 230
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 25
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Syntax Notes:
1 At least one of SAC02 or SAC03 is required.
2 If either SAC03 or SAC04 is present, then the other is required.
3 If either SAC06 or SAC07 is present, then the other is required.
4 If either SAC09 or SAC10 is present, then the other is required.
5 If SAC11 is present, then SAC10 is required.
6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7 If SAC14 is present, then SAC13 is required.
8 If SAC16 is present, then SAC15 is required.

Semantic Notes:
1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2 SAC05 is the total amount for the service, promotion, allowance, or charge.
If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
3 SAC08 is the allowance or charge rate per unit.
4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
7 SAC16 is used to identify the language being used in SAC15.

Comments:
1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes: REQUIRED
SAC~C~~EU~ENC001~2000~~~.02~KH~1000~~~~~ENERGY CHARGE 1000 KWH @ .02/KWH

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SAC01**	**248**	**Allowance or Charge Indicator** Code which indicates an allowance or charge for the service specified	**M ID 1/1**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters: **Retail Texas Task Force**
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		A	Allowance		
		C	Charge		
		N	No Allowance or Charge		
SAC03	**559**	**Agency Qualifier Code**		**X**	**ID 2/2**
		Code identifying the agency assigning the code values			
		EU	Electric Utilities		
		GU	Natural Gas Utilities		
SAC04	**1301**	**Agency Service, Promotion, Allowance, or Charge Code**		**X**	**AN 1/10**
		Agency maintained code identifying the service, promotion, allowance, or charge			
		Refer to governing documentation for list of codes			
SAC05	**610**	**Amount**		**O**	**N2 1/15**
		Monetary amount			
		If negative, the minus sign, "-" must be transmitted			
SAC07	**332**	**Percent**		**X**	**R 1/6**
		Percent expressed as a percent			
SAC08	**118**	**Rate**		**O**	**R 1/9**
		Rate expressed in the standard monetary denomination for the currency specified			
SAC09	**355**	**Unit or Basis for Measurement Code**		**X**	**ID 2/2**
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			
		4A	Bobbin A cylinder or spindle on which yarn or thread is wound 4-Coincident Peak (4CP) - Kilowatt Demand		
		4B	Cap Designates that the cap of a container is manufactured to dimensions that enable it to be used as a measuring device when mixing the contents of the container with another substance 4-Coincident Peak (4CP) - kVA Demand		
		4C	Centistokes 1 * 10/-6 square meters/second 4-Coincident Peak (4CP) - Power Factor Applied		
		4D	Curie A unit of radioactivity equal to 3.7 * 10/10 disintegrations per second 4-Coincident Peak (4CP) - KVAR Demand		
		AF	Centigram A unit of metric weight equal to 0.01 gram or 0.000035 ounce Actual Demand Power Factor Adjusted		
		CF	Cubic Feet		
		DA	Days		
		EA	Each		
		GA	Gallon		

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		HH	Hundred Cubic Feet ccf		
		K1	Kilowatt Demand Represents potential power load measured at predetermined intervals		
		K2	Kilovolt Amperes Reactive Demand Reactive power that must be supplied for specific types of customer's equipment; billable when kilowatt demand usage meets or exceeds a defined parameter		
		K3	Kilovolt Amperes Reactive Hour Represents actual electricity equivalent to kilowatt hours; billable when usage meets or exceeds defined parameters		
		K4	Kilovolt Amperes Measure of electrical power		
		K5	Kilovolt Amperes Reactive Measure of electrical power		
		KH	Kilowatt Hour		
		MO	Months		
		NA	Milligrams per Kilogram Non-coincident Peak - Kilowatt Demand		
		NB	Barge Non-coincident Peak - kVa Demand		
		NC	Car Non-coincident Peak - Power Factor Adjusted		
		ND	Net Barrels Non-coincident Peak - KVAR Demand		
		RA	Rack Ratchet - Kilowatt Demand		
		RB	Radian Ratchet - kVA Demand		
		RC	Rod (area) - 16.25 Square Yards Ratchet - Power Factor Adjusted		
		RD	Rod (length) - 5.5 Yards Ratchet - KVAR Demand		
		TD	Therms		
		TZ	Thousand Cubic Feet Dekatherms		
		WK	Week		
SAC10	**380**	**Quantity** Numeric value of quantity		**X**	**R 1/15**
SAC15	**352**	**Description** A free-form description to clarify the related data elements and their content		**X**	**AN 1/80**

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Segment: **TXI** **Tax Information**
Position: 237
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify tax information
Syntax Notes:
1 At least one of TXI02 TXI03 or TXI06 is required.
2 If either TXI04 or TXI05 is present, then the other is required.
3 If TXI08 is present, then TXI03 is required.
Semantic Notes:
1 TXI02 is the monetary amount of the tax.
2 TXI03 is the tax percent expressed as a decimal.
3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.
Comments:
Notes: OPTIONAL
Taxes that apply to the entire IT1 segment are shown in TXI position 040.
Taxes that do not apply to the entire IT1 segment, but do apply to specific charges are shown in TXI position 237.
Taxes that apply to the entire invoice are considered Account level taxes and are shown in TXI position 020. If an IT1 Account loop is used, account level taxes may appear within that loop.
TXI~ST~1.6~~~~~A

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**TXI01**	**963**	**Tax Type Code** Code specifying the type of tax CS City Sales Tax CT County Tax ET Energy Tax Tax applied to the utility and petroleum industries FR Franchise Tax Tax imposed by municipality for the right to provide service GR Gross Receipts Tax LO Local Tax (Not Sales Tax) Service tax imposed on a local level LS State and Local Sales Tax ST State Sales Tax	**M ID 2/2**
	TXI02	**782**	**Monetary Amount** Monetary amount	**X R 1/18**
	TXI03	**954**	**Percent** Percentage expressed as a decimal	**X R 1/10**

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TXI06	**441**	**Tax Exempt Code**	**X**	**ID 1/1**
		Code identifying exemption status from sales and use tax		
		1 Yes (Tax Exempt)		
		2 No (Not Tax Exempt)		
TXI07	**662**	**Relationship Code**	**O**	**ID 1/1**
		Code indicating the relationship between entities		
		A Add		
		O Information Only		
		Charges which relate to but may not be included in or added to the unit price of the SLN. (i.e., compute WATS calculation based upon usage amounts)		

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Segment: **N1** **Customer Service Address (N1~MQ)**
Position: 240
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: REQUIRED
N1~MQ~METER LOCATION

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual MQ Metering Location	**M ID 2/3**
	N102	**93**	**Name** Free-form name	**X AN 1/60**
	N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent	**X ID 1/2**
	N104	**67**	**Identification Code** Code identifying a party or other code Customer Reference Number (i.e. store number)	**X AN 2/80**

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Segment: **N2** **Additional Name Information**
Position: 250
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Notes: OPTIONAL
N2~NAME2

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N201**	**93**	**Name** Free-form name	**M AN 1/60**
	N202	**93**	**Name** Free-form name	**O AN 1/60**

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Segment: **N3** **Address Information**
Position: 260
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: REQUIRED
N3~123 Here Lane

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N301**	**166**	**Address Information** Address information	**M AN 1/55**
	N302	**166**	**Address Information** Address information	**O AN 1/55**

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Segment: **N4** **Geographic Location**
Position: 270
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
Comments: **1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: REQUIRED
N4~DALLAS~TX~75056

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N401	**19**	**City Name** Free-form text for city name	**O AN 2/30**
N402	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	**O ID 2/2**
N403	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	**O ID 3/15**
N404	**26**	**Country Code** Code identifying the country	**O ID 2/3**

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Segment: **TDS** **Total Monetary Value Summary**
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To specify the total invoice discounts and amounts
Syntax Notes:
Semantic Notes:
1 TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
2 TDS02 indicates the amount upon which the terms discount amount is calculated.
3 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
4 TDS04 indicates the total amount of terms discount.
Comments:
1 TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.
Notes: REQUIRED
TDS~20000

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**TDS01**	**610**	**Amount** Monetary amount TDS01 is the total amount due for this invoice including any prior balance owed at the time of billing. If the total is negative, a minus sign is sent.	**M N2 1/15**

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Segment: **CTT** **Transaction Totals**
Position: 070
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: **1** If either CTT03 or CTT04 is present, then the other is required.
2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment is intended to provide hash totals to validate transaction completeness and correctness.
Notes: REQUIRED
CTT~1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**CTT01**	**354**	**Number of Line Items** Total number of line items in the transaction set	**M N0 1/6**

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Segment: **SE** **Transaction Set Trailer**
Position: 080
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: **1** SE is the last segment of each transaction set.
Notes: REQUIRED
SE~25~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**
M	**SE02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M AN 4/9**

RXQ.9.6.1 Customer Invoice

Data Dictionary

Data Elem. Name	Description	Use	Condition	Comments [Options]
Date	Date invoice is created	M		
Invoice Number	Unique ID created by the originator of the invoice; may be a combination of the account number and date.	M		
Transaction Type Code	Identifies the type of Invoice	M		[FB, PR]
Transaction Set Purpose Code	Identifies the purpose of the Invoice	M		[00, 01]
Customer Account ID	Identifies the Customer's Account Number or Service Delivery Point	M		
Supplier Customer ID	Identifies the Supplier's identification number for the Customer	M		
Original Invoice Number	Identifies the original Invoice Number on a cancelled invoice	O		
Bill Type	Identifies the party sending the Bill	M		[DUAL, LDC, ESP]
Customer Bill To Name	Identifies the Customer Bill To Name	M		
Additional Customer Bill to Name	Identifies additional Customer bill to Names	O		
Customer Bill To Address	Identifies customer bill to address lines	O		
Customer Bill To City	Identifies customers bill to city	O		
Customer Bill To State	Identifies customers bill to state	O		
Customer Bill To Zip	Identifies the customer bill to address zip;	O		
Customers Bill to Contact Name	Identifies the customer contact for the bill to Location	M		
Customers Bill to Contact Phone Number	Identifies the customers' phone number for the Bill To Contact	M		
Remit to Name	Identifies the Remit to Name	M		
Additional Remit to Name	Identifies additional Remit to Names	O		
Remit to Address	Identifies Remit to address lines	O		
Remit to City	Identifies Remit to city	O		
Remit to State	Identifies Remit to state	O		
Remit to Zip	Identifies the Remit to address zip;	O		

Data Elem. Name	Description	Use	Condition	Comments [Options]
Remit to Contact Name	Identifies the Remit to Contact Name	M		
Remit to Contact Phone Number	Identifies the Remit to Contact Phone Number	M		
Distribution Company Name	Identifies the distribution company name	M		
Distribution Company ID Number	Entity ID (DUNS Number or DUNS+4 Number) of the distribution company	M		
Distribution Company Contact Name	Identifies a contact name for the Distribution Company	O		
Distribution Company Contact Phone Number	Identifies a contact phone number for the Distribution Company	O		
Supplier Name	Identifies the Supplier Name	M		
Supplier ID Number	Entity ID (DUNS Number or DUNS+4 Number) of the supplier	M		
Supplier Contact Name	Identifies a contact name for the Supplier	O		
Supplier Contact Phone Number	Identifies a contact phone number for the Supplier	O		
Payment Due Date	Identifies the date the payment of the Invoice is Due	M		
Previous Bill Amt	Identifies the total amount of the previous Bill	O		
Outstanding Balance	Identifies the outstanding balance prior to current period charges	O		
Payments	Identifies the payments received since last bill	O		
Assigned Identification	Identifies the DUNS for the party the charges belong to;	M		
Service ID Qualifier	Identifies the type of service	M		[SV, C3]
Service ID	Identifies the type of service	M		[ELECTRIC,GAS,REFUSE,SEWER,WATER]
Service ID2	Identifies the classification of the service	M		[ACCOUNT,METER, RATE,UNMET]
Tax Code	Identifies the type of Tax	O		[CS,FR,GR,LT,ST]
Tax Amount	Identifies the amount of the Tax	O		
Tax Percent	Identifies the tax percentage	O		
Tax Exempt Code	Identifies if tax is exempt or Not exempt	O		[0,1]
Relationship Code	Identifies the relationship of the Tax in regards to the total bill amount	O		[A,O]
Measurement code	Identifies the category of the Reads	O		[AA, AE, BO, EA, EE]
Measurement qualifiers	Identifies the type of measurement being provided	O		[CO,MU,PRQ,ZA]
Measurement	Identifies the total meter read quantity	O		
Unit of Measure	Identifies the unit of measurement of the meter read quantity	O		

Data Elem. Name	Description	Use	Condition	Comments [Options]
Minimum Measurement	Identifies the beginning meter read	O		
Maximum Measurement	Identifies the ending meter read	O		[41, 42, 43, 51, 71]
Measurement Significance Code	Identifies the Time of Use measurement	O		
Meter Number	Identifies the Meter Number	O		
Distribution Company Rate Code	Identifies the Distribution Company Rate Code	O		
Supplier Rate Code	Identifies the Supplier Rate Code	O		
Service Period Start Date	Identifies the start date of the service period	M		
Service Period End Date	Identifies the end date of the service period	M		
Charge/Allowance Indicator	Identifies if the Charge is an allowance or charge or information only	M		[A,C,N]
Agency Qualifier Code	Identifies the agency defining the charge codes	M		[EU,GU]
Charge Code	Identifies the charge code	M		
Charge Amount	Identifies the amount of the Charge	M		
Charge Percent	Identifies the percent of the charge	O		
Charge Rate	Identifies the charge rate per unit	O		
Charge Unit of Measure	Identifies the unit of measurement of the charge quantity	O		
Charge Quantity	Identifies the total quantity being charged	O		
Charge Description	Provides a text description of the Charge	O		
Service Location Name	Identifies the Service Location Name	M		
Service Location Identifier	Provides the identification number for a service Location	O		
Additional Service Location Name	Identifies additional Service Location Names	O		
Service Location Address	Identifies Service Location address lines	M		
Service Location City	Identifies Service Location city	M		
Service Location State	Identifies Service Location state	M		
Service Location Zip	Identifies the Service Location address zip;	M		
Total Bill Amount	Identifies the total amount of bill including all charges, taxes and adjustments	M		
Line Item Count	Provides a count of the line items (assigned identification loops)	M		

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820 NAESB RXQ.9.6.2 Customer Payment Order/Remittance Advice

Functional Group ID=RA

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Payment Order/Remittance Advice Transaction Set (820) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to make a payment, send a remittance advice, or make a payment and send a remittance advice. This transaction set can be an order to a financial institution to make a payment to a payee. It can also be a remittance advice identifying the detail needed to perform cash application to the payee's accounts receivable system. The remittance advice can go directly from payer to payee, through a financial institution, or through a third party agent.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BPR	Beginning Segment for Payment Order/Remittance Advice	M	1		
	035	TRN	Trace Number (TRN~1)	C	1		c1
			LOOP ID - N1			>1	
M	070	N1	Name: Payee (N1~PE)	M	1		c2
			LOOP ID - N1			>1	
M	070	N1	Name: Payer (N1~PR)	M	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - ENT			>1	
M	010	ENT	Entity	M	1		n1, c3
			LOOP ID - RMR			>1	
M	150	RMR	Remittance Advice Accounts Receivable Open Item Reference	M	1		c4
M	170	REF	Customer Account ID (REF~12/Q5)	M	1		
	170	REF	Supplier Account Number (REF~11)	C	1		
M	170	REF	Commodity Service Type (REF~QY)	M	1		
	180	DTM	Invoice Date (DTM~003)	O	1		

Summary:

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	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The ENT loop is for vendor or consumer third party consolidated payments.

Transaction Set Comments

1. The TRN segment is used to uniquely identify a payment order/remittance advice.
2. The N1 loop allows for name/address information for the payer and payee which would be utilized to address remittance(s) for delivery.
3. ENT09 may contain the payee's accounts receivable customer number.
4. Loop RMR is for open items being referenced or for payment on account.

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Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: REQUIRED
ST~820~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 820 Payment Order/Remittance Advice	**M ID 3/3**
M	**ST02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M AN 4/9**

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Segment: **BPR** **Beginning Segment for Payment Order/Remittance Advice**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a Payment Order/Remittance Advice Transaction Set and total payment amount, or to enable related transfer of funds and/or information from payer to payee to occur

Syntax Notes:
1 If either BPR06 or BPR07 is present, then the other is required.
2 If BPR08 is present, then BPR09 is required.
3 If either BPR12 or BPR13 is present, then the other is required.
4 If BPR14 is present, then BPR15 is required.
5 If either BPR18 or BPR19 is present, then the other is required.
6 If BPR20 is present, then BPR21 is required.

Semantic Notes:
1 BPR02 specifies the payment amount.
2 When using this transaction set to initiate a payment, all or some of BPR06 through BPR16 may be required, depending on the conventions of the specific financial channel being used.
BPR06 and BPR07 relate to the originating depository financial institution (ODFI).
3 BPR08 is a code identifying the type of bank account or other financial asset.
4 BPR09 is the account of the company originating the payment. This account may be debited or credited depending on the type of payment order.
5 BPR12 and BPR13 relate to the receiving depository financial institution (RDFI).
6 BPR14 is a code identifying the type of bank account or other financial asset.
7 BPR15 is the account number of the receiving company to be debited or credited with the payment order.
8 BPR16 is the date the originating company intends for the transaction to be settled (i.e., Payment Effective Date).
9 BPR17 is a code identifying the business reason for this payment.
10 BPR18, BPR19, BPR20 and BPR21, if used, identify a third bank identification number and account to be used for return items only.
11 BPR20 is a code identifying the type of bank account or other financial asset.

Comments:
Notes: REQUIRED
Negative remittances cannot be sent, must hold remittance until balance can be offset with a zero or positive payment.

BPR~I~1000.00~C~ACH~CTX~~~~~~~~~~~~20080731

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**BPR01**	**305**	**Transaction Handling Code** Code designating the action to be taken by all parties	**M ID 1/2**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters: **Retail Texas Task Force**
Request No.: **2009 Annual Plan Item 1 / R05016:**
Request Title: **Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

			C	Payment Accompanies Remittance Advice Used when Payment and Remittance are sent together to the bank.		
			I	Remittance Information Only Used when remittance data is sent separate from payment.		
M	**BPR02**	**782**	**Monetary Amount** Monetary amount The total positive amount (including zero) being sent to Payee. Monetary Amount must equal the sum of all Detail Position 150 RMR04 elements.		**M**	**R 1/18**
M	**BPR03**	**478**	**Credit/Debit Flag Code** Code indicating whether amount is positive or negative		**M**	**ID 1/1**
			C	Credit		
M	**BPR04**	**591**	**Payment Method Code** Code identifying the method for transmitting the payment		**M**	**ID 3/3**
			ACH	Automated Clearing House (ACH)		
			CHK	Check		
			FWT	Federal Reserve Funds/Wire Transfer - Nonrepetitive		
M	**BPR05**	**812**	**Payment Format Code** Code identifying the payment format to be used Used when BPR04 is ACH;		**M**	**ID 1/10**
			CCP	Cash Concentration/Disbursement plus Addenda (CCD+) (ACH)		
			CTX	Corporate Trade Exchange (CTX) (ACH)		
>>	**BPR16**	**373**	**Funds Transfer Date** Date [CCYYMMDD] when Payee intends for the transaction to be settled The date the originating company intends for the transaction to be settled (i.e., Payment Effective Date).		**O**	**DT 8/8**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

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Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **TRN** **Trace Number (TRN~1)**
Position: 035
Loop:
Level: Heading
Usage: Conditional
Max Use: 1
Purpose: To uniquely identify a transaction to an application
Syntax Notes:
Semantic Notes:
1 TRN02 provides unique identification for the transaction.
2 TRN03 identifies an organization.
3 TRN04 identifies a further subdivision within the organization.
Comments:
Notes: REQUIRED
Unique ID identifying this transaction, created by the originator, enabling cross-reference to ACH or wire payments.

TRN~1~UCP103941

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**TRN01**	**481**	**Trace Type Code** Code identifying which transaction is being referenced 1 Current Transaction Trace Numbers	**M ID 1/2**
M	**TRN02**	**127**	**Payment Reference ID** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**M AN 1/30**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **N1** **Name: Payee (N1~PE)**
Position: 070
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: REQUIRED
Receiver of the payment/remittance advice
N1~PE~PAYEE COMPANY~1~007191969

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual PE Payee	**M ID 2/3**
>>	**N102**	**93**	**Name** Free-form name Payee Name	**X AN 1/60**
>>	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	**X ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party or other code Payee D-U-N-S Number or D-U-N-S + 4 Number	**X AN 2/80**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **N1** **Name: Payer (N1~PR)**
Position: 070
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: REQUIRED
Initiator of the payment/remittance advice

N1~PR~PAYER CO~9~0079111957CRN1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual PR Payer	**M ID 2/3**
>>	**N102**	**93**	**Name** Free-form name Payer Name	**X AN 1/60**
>>	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	**X ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party or other code Payer D-U-N-S Number or D-U-N-S + 4 Number	**X AN 2/80**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **ENT** **Entity**
Position: 010
Loop: ENT Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To designate the entities which are parties to a transaction and specify a reference meaningful to those entities
Syntax Notes:
1 If any of ENT02 ENT03 or ENT04 is present, then all are required.
2 If any of ENT05 ENT06 or ENT07 is present, then all are required.
3 If either ENT08 or ENT09 is present, then the other is required.
Semantic Notes:
Comments:
1 This segment allows for the grouping of data by entity/entities at or within a master/masters. A master (e.g., an organization) can be comprised of numerous subgroups (e.g., entities). This master may send grouped data to another master (e.g., an organization) which is comprised of one or more entities. Groupings are as follows:
(1) Single/Single: Only ENT01 is necessary, because there is a single entity (the sending master) communicating with a single entity (the receiving master).
(2) Single/Multiple: ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master. The sending master is a single entity, so no other data elements need be used.
(3) Multiple/Single: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. The receiving master is a single entity, so no other data elements need be used.
(4) Multiple/Multiple: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master.
This segment also allows for the transmission of a unique reference number that is meaningful between the entities.
Notes: REQUIRED
ENT~1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**ENT01**	**554**	**Assigned Number** Number assigned for differentiation within a transaction set	**O N0 1/6**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

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Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **RMR** **Remittance Advice Accounts Receivable Open Item Reference**
Position: 150
Loop: RMR Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify the accounts receivable open item(s) to be included in the cash application and to convey the appropriate detail
Syntax Notes:
1 If either RMR01 or RMR02 is present, then the other is required.
2 If either RMR07 or RMR08 is present, then the other is required.
Semantic Notes:
1 If RMR03 is present, it specifies how the cash is to be applied.
2 RMR04 is the amount paid.
3 RMR05 is the amount of invoice (including charges, less allowance) before terms discount (if discount is applicable) or debit amount or credit amount of referenced items.
4 RMR06 is the amount of discount taken.
5 RMR08, if present, represents an interest penalty payment, amount late interest paid, or amount anticipation.
Comments:
1 Parties using this segment should agree on the content of RMR01 and RMR02 prior to initiating communication.
2 If RMR03 is not present, this is a payment for an open item. If paying an open item, RMR02 must be present. If not paying a specific open item, RMR04 must be present.
3 RMR05 may be needed by some payees to distinguish between duplicate reference numbers.
Notes: REQUIRED
A separate RMR loop is required for each Customer ID remittance reported
RMR~IK~123455~PO~1000.00 (using Invoice ID in RMR02)
RMR~12~6789012345~PO~-1000.00 (using Customer Account ID in RMR02)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**RMR01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification IK Invoice Number Invoice ID from the BIG02 of the 810 Invoice	**X ID 2/3**
>>	**RMR02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**
	RMR03	**482**	**Payment Action Code** Code specifying the accounts receivable open item(s), if any, to be included in the cash application. AJ Adjustment PO Payment on Account	**O ID 2/2**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters: **Retail Texas Task Force**
Request No.: **2009 Annual Plan Item 1 / R05016:**
Request Title: **Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

>>	**RMR04**	**782**	**Net Amount Paid** Monetary amount Payment amount - the sum of all Detail Position 150 RMR04 elements and RMR08 elements must equal the amount in Header Position 020 BPR02. Please see the Notes section in the BPR Segment for instructions on how to handle a negative remittance.	**O**	**R 1/18**
	RMR07	**426**	**Adjustment Reason Code** Code indicating reason for debit or credit memo or adjustment to invoice, debit or credit memo, or payment 26 Invoice Cancelled 72 Authorized Return CS Adjustment IF Insufficient Funds	**X**	**ID 2/2**
	RMR08	**782**	**Adjustment Amount** Monetary amount Signed if negative. The adjustment amount is only populated if RMR03=AJ.	**X**	**R 1/18**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **REF** **Customer Account ID (REF~12/Q5)**
Position: 170
Loop: RMR Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: REQUIRED
Distribution Company ID that identifies the Customer. In a deregulated marketplace, governing documents define whether REF~12 or REF~Q5 is required.

- REF~12 uses REF02 for Distribution Company Account Number
- REF~Q5 uses REF03 for Service Delivery ID (ERCOT)

REF~12~1234567890
REF~Q5~~10111111234567890ABCDEFGHIJKLMNOPQRS

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 12 Billing Account Account number under which billing is rendered Account number assigned by the Distribution Company Q5 Property Control Number Service Delivery ID	**M ID 2/3**
	REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier REF01 = 12: Distribution Company Account Number REF01 = Q5: Not Used	**X AN 1/30**
>>	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content REF01 = 12: Not Used REF01 = Q5: Service Delivery ID	**X AN 1/80**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

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Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **REF** **Supplier Account Number (REF~11)**
Position: 170
Loop: RMR Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: REQUIRED if available and supplier charges are on the bill.
REF~11~3940193248

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account Customers Account number assigned by the Supplier	**M ID 2/3**
>>	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Supplier Account Number	**X AN 1/30**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

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Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **REF** **Commodity Service Type (REF~QY)**
Position: 170
Loop: RMR Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: OPTIONAL
Identifies type of commodity service (electric or natural gas)

REF~QY~ELECTRIC

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification QY Service Performed Code Number indicating the type of service performed to repair a product	**M ID 2/3**
>>	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier ELECTRIC Electric Commodity Service GAS Natural Gas Commodity Service	**X AN 1/30**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

Segment: **DTM** **Invoice Date (DTM~003)**
Position: 180
Loop: RMR Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: OPTIONAL
DTM~003~20091111

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 003 Invoice Invoice Date	**M ID 3/3**
	DTM02	**373**	**Date** Date expressed as CCYYMMDD	**X DT 8/8**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Segment: **SE** **Transaction Set Trailer**
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: **1** SE is the last segment of each transaction set.
Notes: REQUIRED
SE~28~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**
M	**SE02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M AN 4/9**

RXQ.9.6.2 Customer Payment (Order/Remittance Advice)

Data Dictionary

Data Elem. Name	Description	Use	Condition	Comments [Options]
Transaction Handling Code	Code identify if remittance and dollars are sent or just remittance	M		[I,C]
Payment Amount	Total amount of Payment	M		
Credit/Debit Flag	Identifies payment as Credit	M		[C]
Payment Method Code	Identifies the type of Payment made	M		[ACH, CHK, FWT]
Payment Format Code	Identifies the type of ACH payment; used only when Payment Method Code is ACH	C		[CCP, CTX]
Funds Transfer Date	Identifies the date the payment is effective	M		
Trace Number	Unique ID identifying this transaction, created by the originator, enabling cross-reference to ACH or wire payments.	M		
Payee Name	Identifies the receiver of the payment	M		[DUAL, LDC, ESP]
Payee DUNS	Identifies the DUNS or DUNS plus 4 for the Payee	O		
Payer Name	Identifies the originator of the payment	M		
Payer DUNS	Identifies the DUNS or DUNS plus 4 for the Payer	O		
Invoice Number	Identifies the unique invoice number that the payment refers to	M		
Payment Action Code	Identifies the payment as either a payment or an adjustment	M		[PO, AJ]
Net Payment Amount	Amount of detail payment	M		
Adjustment Reason Code	Identifies the reason for the Adjustment	O		[26, 72, CS, IF]
Adjustment Amount	Amount of Adjustment	O		
Customer Account ID	Identifies the Customer's Account Number or Service Delivery Point	M		
Supplier Customer ID	Identifies the Supplier's identification number for the Customer	M		
Commodity Service Type	Identifies the type of service the payment is for	O		[ELECTRIC, GAS]
Invoice Date	Identifies the date of the invoice being paid	O		

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Requesters:	**Retail Texas Task Force**
Request No.:	**2009 Annual Plan Item 1 / R05016:**
Request Title:	**Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions**

4. SUPPORTING DOCUMENTATION

a. Description of Request:

Develop Technical Electronic Implementation Standards and Data Dictionaries (Book 9) - Customer Billing and Payment Notification via Uniform Electronic Transactions

b. Description of Recommendation:

See Summary

c. Business Purpose:

To support Model Business Practices: R05016 - Customer Billing and Payment Notification via Uniform Electronic Transactions.

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

Comments Submitted by J. Ray, Southern Company

NAESB RETAIL ELECTRIC AND RETAIL GAS QUADRANTS TECHNICAL ELECTRONIC IMPLEMENTATION

STANDARDS AND DATA DICTIONARIES CUSTOMER BILLING AND PAYMENT NOTIFICATION

VIA UNIFORM ELECTRONIC TRANSACTIONS COMPARISON

EDI 810 INVOICE AND EDI 820 PAYMENT ORDER/REMITTANCE ADVICE

FEBRUARY 2009

EDI 810 INVOICE

EDI GUIDELINE SECTION			
SoCo includes, NAESB excludes			
NAESB includes, SoCo excludes			
SEGMENT ID	**POSITION #**	**NAME/DESCRIPTION**	**NOTES/COMMENTS**
ISA		Interchange Control Header	Add to guidelines
GS		Functional Group Header	Add to guidelines
HEADING			
BIG	020	Beginning Segment for Invoice	BIG04 "Utility" missing BIG08 code **"01"**- Cancellation. Does customer expect a cancellation invoice? BIG08 code **"05"** - Replace invoice not listed
NTE	030	Note/Special Instruction **Need to include CODE**	SoCo sends NTE01 **"OTH"** and uses free-form field to pass PSC required messages such as disconnection notices and KVAH usage calculation. For example, CALCULATION OF KVA USAGEKVA usage is calculated by dividing the KW usage by the| power factor. TO CALCULATE POWER

Comments Submitted by J. Ray, Southern Company

			FACTOR:KVAH = Square root of (KWH) squared + (KV|ARH) squared. Power Factor = KWH/KVAH*. *Truncated to 4 decimals. Our records indicate that we have not received payment for the appliance repair charges previously billed on your account. Since this account is past due, please pay all previous and current charges by the due date reflected on this bill.| If you have paid within the past few days, please disregard this notice, accept our sincere thanks, and pay only current billed amounts.|
REF	050	Customer Account ID (REF~12~Q5)	NAESB includes, SoCo excludes (De-regulated utility information)
REF	050	Supplier Account Number (REF~11)	NAESB includes, SoCo excludes (De-regulated utility information)
REF	050	Original Invoice (REF~OI)	**SoCo sends only if BIG08= "05"**
REF	050	Party Sending Bill (REF~BLT)	NAESB includes, SoCo excludes (De-regulated utility information)
LOOP ID – N1			
N1	070	Customer Name (N1~BT)	**N104 not listed in Data Element Summary section. SoCo can populate the store # / account ID in N104**
N2	080		SoCo sends "Doing Business As" information
N3	090		NAESB includes, SoCo excludes
N4	100		NAESB includes, SoCo excludes
REF	110	Reference Identification Qualifier (REF~AQ) Web Access Code and (REF~ZZ) Additional Customer identifying data	SoCo includes, NAESB excludes.

Comments Submitted by J. Ray, Southern Company

PER	120	Administrative Communications Contact	NAESB includes, SoCo excludes
LOOP ID N-1			
N1	070	Customer Name (N1~RE)	N104 not listed in Data Element Summary section. SoCo can populate the store # in N104
N2	080		SoCo sends "Doing Business As" information
N3	090		N3 only sent when N101 = "RE"
N4	100		N4 only sent when N101 = "RE"
PER	120	**Need to include CODE**	SoCo sends two PER segments. 1) "CR" for (Customer Relations Contact) **2) "IC" for (Information/Technical Contact)** PER~CR~AL Power Business Call Center~TE~1-888-430-5787| PER~IC~EDI Technical Contact~TE~404-506-2457|
LOOP ID N-1			Not needed for regulated utility
N1	070	Distribution Company (N1~8S)	NAESB includes, SoCo excludes
PER	120		NAESB includes, SoCo excludes
LOOP ID N-1			Not needed for regulated utility
N1	070	Supplier (N1~SJ)	NAESB includes, SoCo excludes
PER	120		NAESB includes, SoCo excludes
ITD	155	Same format and data	**SoCo uses ITD position 130**
DTM	140	SoCo uses code 135 - Booking	SoCo sends DTM for Revenue Month Period
BAL	212	Previous Bill Amount (BAL~P~YB)	NAESB includes, SoCo excludes
BAL	212	Outstanding Balance Prior to Current (BAL~M~J9)	NAESB includes, SoCo excludes
BAL	212	Payments Since Last Bill (BAL~P~TP)	NAESB includes, SoCo excludes

Comments Submitted by J. Ray, Southern Company

DETAIL			
LOOP ID – IT1			
IT1	010	Baseline Item Data (Invoice)	**SoCo does not capture DUNS # to place in IT101.** SoCo excludes IT108 Product/Service ID Qualifier and IT109 Product/Service ID
TXI	040	Tax Information **Need to include CODES**	**TXI 040 is used for taxes that apply to the entire IT1 segment. If the tax applies to a specific charge it appears in the TXI position 237 below.** **-Tax Type Codes SoCo includes, NAESB excludes** **CA** City Tax **CT** County Tax (does not appear in TXI040 but does appear in TXI 237 below) **MP** Municipal Tax **TX** All Taxes **UL** License Tax **-Tax Type Codes NAESB includes, SoCo excludes** CS City Sales Tax LO Local Tax (Not Sales Tax) LS State and Local Sales Tax **-NAESB includes, SoCo excludes** TX103 Percent, TX106 Tax Exempt Code and TXI107 Relationship Code **-SoCo includes, NAESB excludes** **TXI10** Taxing name used for Gulf Power only
MEA	059	Measurements	NAESB includes, SoCo excludes **-MEA02 Measurement Qualifiers** CO Core Loss PRQ Product Reportable Quantity ZA Power Factor **-MEA04 Composite Unit of**

Comments Submitted by J. Ray, Southern Company

		Need to include CODE	**Measure C00101** NAESB includes, SoCo excludes CF Cubic Feet K2 Kilovolt Amperes Reactive Demand SoCo includes, NAESB excludes – These need to be added **DA** Days **BY** British Thermal Unit **K7** Kilowatt **K9** Kilograms per Millimeter Squared (KG/MM2) **T1** Thousand pounds gross **UN** Unit **-MEA07 Measurement Significance Code** SoCo includes, NAESB excludes **22** Actual **31** Calculated **AA** Summer On Peak **AB** Summer Mid Peak **AC** Summer Off Peak **AF** Winter On Peak **AG** Winter Mid Peak **AH** Winter Off Peak **AO** Summer **AP** Winter NAESB includes, SoCo excludes 45 Per gallon 49 Mist
PID LOOP		Product/Item Description – Free format for data that doesn't fit elsewhere. Originally used to provide usage information now included in the SAC10	SoCo includes, NAESB excludes
PID01	349	Item Description Type	SoCo includes, NAESB excludes
PID05	352	Description	SoCo includes, NAESB

Comments Submitted by J. Ray, Southern Company

			excludes
REF	120	Meter Number (REF~MG)	**SoCo includes REF03 – Tariff Description**
REF	120	Distribution Company Rate Code (REF~NH)	NAESB includes, SoCo excludes
REF	123	Old Meter Number (REF~46)	SoCo sends in REF 120 versus REF123 if applicable
REF	124	Supplier Rate Code (REF~RB)	NAESB includes, SoCo excludes
LOOP ID - SLN			
SLN	200	Subline Item Detail	Modify Name for SLN01 Data Element 350 Alphanumeric characters assigned for differentiation within a transaction set. Sequential number assignment as a segment counter within the loop.
SAC	230	**Need to include CODES**	SAC03 NAESB includes, SoCo excludes GU Natural Gas utilities SAC07 What does the percent value represent in the NAESB? SAC09 NAESB includes, SoCo excludes CF Cubic Feet EA Each 4A Bobbin 4B Cap 4C Centistokes 4D Curie GA Gallon HH Hundred Cubic feet K2 Kilovolt Amperes Reactive Demand SoCo includes, NAESB excludes **BY** **K7** **K9** **T1**

Comments Submitted by J. Ray, Southern Company

			UN
TXI	237	**SoCo includes in the Summary Section**	NAESB includes, SoCo excludes TXI 040 is used for taxes that apply to the entire IT1 segment. If the tax applies to a specific charge it appears in the TXI position 237**.** **-Tax Type Codes SoCo includes, NAESB excludes** **CA** City Tax **CT** County Tax (appears in TXI237 but not TXI040 above) **MP** Municipal Tax **TX** All Taxes **UL** License Tax **-Tax Type Codes NAESB includes, SoCo excludes** CS City Sales Tax LO Local Tax (Not Sales Tax) LS State and Local Sales Tax **-NAESB includes, SoCo excludes** TX103 Percent, TX106 Tax Exempt Code and TXI107 Relationship Code **-SoCo includes, NAESB excludes** **TXI10** Taxing name used for Gulf Power only
LOOP ID – N1			
N4	270	Geographic Location	NAESB includes, SoCo excludes N404 Country Code
REF	280	**ZZ – mutually defined (catch-all)**	SoCo includes, NAESB excludes
SUMMARY			
TDS	010		
TXI	020		SoCo includes, NAESB excludes
SAC	040	**Non-Service Charges like Administrative Charges**	SoCo includes, NAESB excludes

Comments Submitted by J. Ray, Southern Company

CTT	070		
SE	080		
GE		Functional Group Header	Add to guidelines
IEA		Interchange Control Header	Add to guidelines

Comments Submitted by J. Ray, Southern Company

EDI 820 PAYMENT ORDER/REMITTANCE ADVICE

EDI GUIDELINE SECTION			
SoCo includes, NAESB excludes			
NAESB includes, SoCo excludes			
SEGMENT ID	**POSITION #**	**NAME/DESCRIPTION**	**NOTES/COMMENTS**
ISA		Interchange Control Header	Add to guidelines
GS		Functional Group Header	Add to guidelines
HEADING			
BPR	020	Beginning Segment for Payment Order/Remittance Advice	NAESB includes, SoCo excludes **BPR01** I Remittance Information Only (used when remittance data is sent separate from payment) **BPR03** Are debit "D" transaction allowed for reversals? **BPR04** NAESB includes, SoCo excludes CHK check FWT Federal Reserve Funds/Wire Transfer-Non-repetitive **BPR05** CCP does not equal CCD+ SoCo includes, NAESB excludes BPR06 DFI ID number qualifier BPR07 Originating bank routing ID (sender's bank ABA) BPR08 Account number qualifier (DA for Demand

Comments Submitted by J. Ray, Southern Company

			Deposit) BPR09 Account number (sender's bank account number) BPR12 DFI number qualifier (destination bank) BPR13 DFI identification number (destination bank routing ID) BPR14 Account number qualifier (DA Demand Deposit) BPR15 Account number (bank account number of party receiving payment)
TRN	035	Trace Number	Must have TRN or REF segment with unique ID
REF	050	Reference Identification	REF used to send bank trace number if not sent in TRN segment
N1 LOOP			
N1PE			
N1PR			
PER	120	Administrative Communications Contact	SoCo includes, NAESB excludes SoCo recommends PER segment include phone number information for payment research and tracking
DETAIL			
ENT	010	Entity	SoCo includes, NAESB excludes SoCo expects sequential counter for each RMR record or an ENT for each group of RMR segments ENT02 Entity Identifier Code AG Agent/Agency ENT03 Identification Code Qualifier (assigned by receiver) ENT04 Identification code
NM1	020	Individual or Organizational Name	SoCo includes, NAESB excludes

Comments Submitted by J. Ray, Southern Company

			SoCo recommends NM1 segments for individual customer payments
N3	040	Address Information	SoCo includes, NAESB excludes SoCo recommends N3 segments for individual customer payments
N4	270	Geographic Location	SoCo includes, NAESB excludes SoCo recommends N4 segments for individual customer payments NAESB includes, SoCo excludes N404 Country Code
REF	060	Reference Identification	Detail Transaction reference number (customer includes)
NTE	090	Note/Special Instruction	Customer provided adjustment notes
RMR	150	Remittance Advice Accounts Receivable Open Item Reference	SoCo includes, NAESB excludes RMR01 11 Account number CR Customer reference number IN Consignee's invoice number IV Seller's invoice number OI Original invoice number PO Purchase order number RMR02 Reference identification required for CTX/820 and CCD+. Supplier account number listed first in field. RMR03 Payment Action Code AJ Adjustment not valid code. Not processed as an adjustment by SoCo. RMR04 Net Amount Paid required CTX/820 and CCD+.

Comments Submitted by J. Ray, Southern Company

			NAESB includes, SoCo excludes IK Invoice number RMR07 Adjustment Reason Code (not processed by SoCo) 26 Invoice cancelled 72 Authorized return CS Adjustment IF Insufficient funds RMR08 Adjustment Amount (not processed by SoCo)
REF12/Q5	170	Customer account ID	NAESB includes, SoCo excludes Deregulated markets use to provide distribution company information. SoCo includes REF 170 to provide detail level transaction number REF01 "TN" only.
REF11	170	Supplier account number	NAESB includes, SoCo excludes Deregulated markets use to provide supplier account information. REF01 11 Supplier account information
REFQY	170	Commodity service type	NAESB includes, SoCo excludes Not required for regulated utility
DTM003	180	Invoice date	NAESB includes, SoCo excludes Not required for regulated utility
SUMMARY			
GE		Functional Group Header	Add to guidelines
IEA		Interchange Control Header	Add to guidelines

Comments Submitted by J. Ray, Southern Company

PPLSolutions, LLC submits the comments below for 2009 Retail AP Item 1/R05016 (Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions).

In addition, we will volunteer to make any necessary changes to the technical document using the Foresight EDISIM software for implementation guideline development.

Customer 810 Transaction

Throughout the Document

- In other NAESB TIES EDI Implementation Guidelines, the element requirements in the left most column spelled out "Must Use" where appropriate, but this guideline has an "M". For consistency and clarity, the implementation guideline should be regenerated from the Foresight EDISIM software with that option (it is an option selected in Document Builder).
- Similarly, when an element is dependent, such as the REF02 and REF03 of the REF*12/Q5, the left most column should read "Dep" as in other NAESB Implementation Guides.
- Other NAESB Implementation Guidelines follow through with making more of the elements "Must Use". For example, when there is a REF segment that only has REF01 and REF02, the REF02 is always required and therefore should be set to "Must Use" in the EDISIM Standards Editor. This gives a clear direction to the user that they cannot send a REF segment with just the REF01.

Header Record

- The ST01 element should have the code "810" in place of the "Refer to 004010 Data Element Dictionary for acceptable code values."
- BIG08 use of "01" Cancel – The process of canceling an 810 is critical in the utility/supplier relationship for Energy Choice, when the utility sends an 810 to the supplier or vice versa and then subsequently cancels it. However, in the relationship with the customer, there is no such ability for a Customer Service System to generate a cancel 810 transaction. Instead, the utility "cancel/rebills" and sends the "Corrected" bill to the customer. Therefore, at a minimum, code "CO" for "Corrected" should be added; we believe that code "01" should be removed. If the code "01" is removed, then REF*OI (Original Invoice Number) should also be removed.
- REF*BLT – Billing Type. This segment may be very useful to the customer or their billing providers as it lets them know whether they will receive one bill or two bills for their energy usage. The descriptions next to the codes may need to be a bit more explanatory for this type of invoice as the customers are not as familiar with our terminology:

DUAL	Each party - Supplier and Distribution Company - sends separate bill to customer
ESP	Suppliers sends a consolidated bill to customer including both Supplier and Distribution Company charges
LDC	Distribution Company sends a consolidated bill to customer including both Supplier and Distribution Company charges

- N1*8S (Distribution Company). The requirement here states, "Identifies Distribution Company with charges on the bill". However, the distribution company should be included on a Supplier-only bill (in a dual bill situation) even though there are no distribution company charges included. Suggest removing that sentence or at least the portion "with charges on the bill".
- Distribution Company address and contact information – There are many state requirements that a supplier include the Distribution Company Name, Address, Telephone Number and/or Email address/website on their bill to the customer. There is no place on the NAESB 810 to include the address, email address or website. Suggest adding N2, N3, N4, PER (with EM and TE).
- N1*SJ – The N103 should have the same codes as the N103 of the N1*8S: 1 and 9 (for DUNS and DUNS+4).
- Currently, NAESB is including the customer service address in the N1*MQ loop at Detail Position 240 near the end of the transaction. It should be moved up to the header along with all the other addresses.

Detail Record

- IT107 we are including Water and Refuse… NAESB is not in these industries and there is little chance that these industries would be combined on an electric and/or gas bill. Therefore, these codes should be eliminated.
- TXI01 – Additional tax codes are required for various jurisdictions:
    - AT – PUC Assessment Reimbursement
    - CT – County Tax
    - LT - Local Sales Tax (All Applicable Sales Taxes by Taxing Authority Below the State Level)
    - MP – Municipal Tax
    - SE – State Excise Tax (Graybox: Excise Tax Reimbursement)
    - SU – Sales and Use Tax
    - UT – Utilities Users' Tax
- REF*46 – Old Meter Number should be removed for this type of invoice. There is no place on a customer bill for an old meter number, if there are multiple meters, then they all appear for each portion of the service, but none are labeled "old".
- REF*RB – Supplier Rate Code should be removed for this type of invoice. This code is used between the utility and supplier in a Utility Consolidated "Rate Ready" billing scenario, where the supplier tells the utility which rate code to use to charge the customer. This information is never included on the paper bill to the customer and would therefore not be included in the Customer 810.
- N1*MQ – As mentioned previously, the Service Address should be moved to the Header along with all other addresses.

Additional Consideration

- One of the best features of the NAESB EDI Implementation Guidelines is that they show the implementation of the segments, rather than just including the codes. For example, each REF segment is shown with its requirements. However, in the Customer 810, the IT1 looping structure (and in particular the MEA segment) was not handled this way. This particular looping structure becomes somewhat complex because there is meter data that must be provided for the entire account, and is not necessarily assigned to supplier or distribution company charges. The IT101 currently requires the

differentiation between the two. It would make sense to provide additional detail on this transaction to show the implementation as follows:

- IT1 Loop for Meter Information
  - IT109 = METER
  - MEA for the Usage (MEA01, MEA02=PRQ, MEA03, MEA04, MEA05, MEA06, MEA07).
  - MEA for Meter Constant (MEA02 = MU, MEA03)
  - MEA for Power Factor (MEA02 = ZA, MEA03)
  - REF for Meter Number (REF01 = MG)
  - DTM for Service Period Start Date (DTM01 = 150)
  - DTM for Service Period End Date (DTM01 = 151)
- IT1 Loop for Charges
  - This is where you can require IT101 to be the DUNS Number of the entity whose charges are appearing.
  - IT1
  - TXI
  - REF for Utility Rate Class (REF01 = NH)
  - REF for Meter Number (REF01 = MG) for those whose charges are by meter.
  - DTM for Service Period Start Date (DTM01 = 150)
  - DTM for Service Period End Date (DTM01 = 151)
  - SLN
  - SAC
  - TXI

820 Transaction

- It appears that this transaction was developed as a Remittance Only transaction, so NAESB is accurately realizing that they have no influence over the relationship between the customer and their financial institution for payments. The question that remains is what is the purpose of this version of the 820? There are no circumstances in which I'm aware that a utility or supplier would want their customer to create a Remittance Only EDI transaction. All payments should include the customer account number or invoice number as would any other payment. The entire 820 transaction should be eliminated.

RECOMMENDATION TO
NAESB WGQ AND RETAIL EXECUTIVE COMMITTEES

Requester: **Kinder Morgan**
Request No.: **R08015, 2009 WGQ AP Item 2.b., 2009 Retail AP Item 5.**

1. Recommended Action:

___Accept as requested
_X_Accept as modified below
___Decline

Effect of EC Vote to Accept Recommended Action:

_X_Change to Existing Practice
___Status Quo

2. TYPE OF MAINTENANCE

Per Request:

___Initiation
_X_Modification
___Interpretation
___Withdrawal

___Principle (x.1.z)
___Definition (x.2.z)
_X_Business Practice Standard (x.3.z)
___Document (x.4.z)
___Data Element (x.4.z)
___Code Value (x.4.z)
___X12 Implementation Guide
___Business Process Documentation

Per Recommendation:

___Initiation
_X_Modification
___Interpretation
___Withdrawal

___Principle (x.1.z)
___Definition (x.2.z)
_X_Business Practice Standard (x.3.z)
___Document (x.4.z)
___Data Element (x.4.z)
___Code Value (x.4.z)
___X12 Implementation Guide
_X_Business Process Documentation

3. RECOMMENDATION

SUMMARY:

Revise the Trading Partner Agreement ("TPA") by removing the Exhibits from the agreement and relegate such information as contained in the Exhibits to operational worksheet(s). The TPA is currently used by members of the Wholesale Gas and Retail Quadrants.

STANDARDS LANGUAGE:

For Proposed Revised Trading Partner Agreement (WGQ Standard 6.3.3), see Exhibit "A" attached.

For Proposed Trading Partner Worksheet WGQ Standards 6.3.3.TPW), see Exhibit "B" attached.

For Proposed Frequently Asked Questions (2009 TPA & TPW), see Exhibit "C" attached.

For Proposed Revisions to Internet ET, see Exhibit "D" attached.

For Proposed Revisions to WGQ QEDM, see Exhibit "E" attached.

RECOMMENDATION TO
NAESB WGQ AND RETAIL EXECUTIVE COMMITTEES

Requester: **Kinder Morgan**
Request No.: **R08015, 2009 WGQ AP Item 2.b., 2009 Retail AP Item 5.**

For Proposed Revisions to Retail QEDM, see Exhibit "F" attached.

The footnotes and standards numbering will be modified appropriately for the Retail Quadrant.

4. SUPPORTING DOCUMENTATION

a. Description of Request:

Request R08015 submitted by Kinder Morgan (copy attached),
2009 WGQ Annual Plan Contracts Item 2.b. – "Revise the Trading Partner Agreement TPA by removing the Exhibits from the agreement and relegate such information as contained in the Exhibits to operational worksheet(s).", and
2009 Retail Annual Plan BPS Item 5. – "Revise the Trading Partner Agreement TPA by removing the Exhibits from the agreement and relegate such information as contained in the Exhibits to operational worksheet(s)."

b. Description of Recommendation:

Joint WGQ Contracts SC, WGQ EDM SC and Retail BPS SC
See the joint WGQ Contracts SC, WGQ EDM SC and Retail BPS SC meeting minutes, meeting minute attachments, filed comments and various document drafts for the supporting documentation, discussion, and voting records for the following dates: December 1, 2008; January 7, 2009; January 28, 2009 and February 25, 2009.

WGQ Motion on Recommendation:
Replace the existing NAESB WGQ Trading Partner Agreement (NAESB WGQ Standard 6.3.3 adopted May 13, 2005) with the modified NAESB WGQ Trading Partner Agreement (NAESB WGQ Standard 6.3.3) and add Trading Partner Worksheet (TPW) (NAESB WGQ Standard 6.3.3.TPW) dated February 25, 2009 as shown in Exhibits "A" and "B", respectively. Revise the Internet ET and WGQ QEDM as shown in Exhibits "D" and "E", respectively. Further, add FAQs herein to the WGQ TPA Standard documentation as shown in Exhibit "C".

Discussion on the WGQ motion:
Motion made by Mr. Burden and seconded by Mr. Stender at the WGQ Contracts SC, WGQ EDM SC and Retail BPS joint meeting held on February 25, 2009.

Votes on the WGQ Motion
The vote on the motion was a **balanced vote** with the following tally by WGQ Segments (participant abstentions by segment, if any, are noted in []). Specific votes of participants are set forth in the meeting minutes of February 25, 2009:

RECOMMENDATION TO
NAESB WGQ AND RETAIL EXECUTIVE COMMITTEES

Requester: **Kinder Morgan**
Request No.: **R08015, 2009 WGQ AP Item 2.b., 2009 Retail AP Item 5.**

WGQ Segment	Votes Cast			Balanced Vote		
	YES	NO	TOTAL	YES	NO	TOTAL
End Users						
LDCs	4	0	4	2	0	2
Pipeline	4	0	4	2	0	2
Producer Services	1	0	1	1	0	1
Total	9	0	9	5	0	5

WGQ Motion Passes

Retail Quadrant Motion on Recommendation:
Replace the existing NAESB RXQ Trading Partner Agreement (NAESB Retail Standard RXQ.6.1 adopted May 13, 2005) with the modified NAESB RXQ Trading Partner Agreement (NAESB Retail Standard RXQ.6.1) and add Trading Partner Worksheet (TPW) (NAESB Retail Standard RXQ.6.1.TPW) dated February 25, 2009 as shown in Exhibits "A" and "B", respectively. Revise the Internet ET and RXQ QEDM as shown in Exhibits "D" and "F", respectively. Further, add new FAQs herein to the existing RXQ TPA User's Guide as shown in Exhibit "C".

Discussion on the Retail Quadrant motion:
Motion made by Mr. Precht and seconded by Ms. Ray at the WGQ Contracts SC, WGQ EDM SC and Retail BPS joint meeting held on February 25, 2009.

Votes on the Retail Quadrant Motion
The vote on the motion was a **balanced vote** with the following tally by Retail Segments (participant abstentions by segment, if any, are noted in []). Specific votes of participants are set forth in the meeting minutes of February 25, 2009:

Retail Segments	Votes Cast			Balanced Vote		
	YES	NO	TOTAL	YES	NO	TOTAL
End Users						
Suppliers	1	0	1	1	0	1
Distributors	6	0	6	2	0	2
Services						
Total	7	0	7	3	0	3

Retail Motion Passes

c. Business Purpose:
See Meeting minutes set forth in item b. above.

d. Commentary/Rationale of Subcommittee(s)/Task Force(s):
See Meeting minutes set forth in item b. above.

ELECTRONIC DATA INTERCHANGE
TRADING PARTNER AGREEMENT

THIS ELECTRONIC DATA INTERCHANGE TRADING PARTNER AGREEMENT (the "Agreement") is made as of _____, ____, by and between _____, a _____ [specify corporation or other entity type], with offices at _____ and _____, a _____, [specify corporation or other entity type] with offices at _____ (collectively, the "parties").

RECITALS

WHEREAS, the parties desire to facilitate transactions, reports and other information exchanged by electronically transmitting and receiving data in agreed formats; and

WHEREAS, the parties desire to assure that such transactions are not legally invalid or unenforceable as a result of the use of available electronic technologies for the mutual benefit of the parties; and

WHEREAS, the parties desire to enter into this Agreement to govern their relationship with respect to computer to computer exchange of information, also known as Electronic Data Interchange ("EDI") transactions; and

WHEREAS, recognizing that this Trading Partner Agreement (TPA) is a confidential document whose revelation could jeopardize the commerce and communication that is conducted between the parties to this agreement, the parties should take at least the same amount of care to secure this TPA as would be taken with any other proprietary, internal or contractual document.

NOW THEREFORE, in consideration of the premises and covenants herein contained, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties, intending to be legally bound, hereby agree as follows:

Section 1. Prerequisites

1.1 Data Communications. Each party may electronically transmit to or receive from the other party any of the North American Energy Standards Board (“NAESB”) transaction sets (collectively "Documents"). The Trading Partner Worksheet (TPW) identifies such Documents and additional technical specifications. The TPW acts as a technical supplement to this Agreement, but is not incorporated in or considered a part of this Agreement. Any transmission of data which is not a Document, a Functional Acknowledgement, an electronic delivery mechanism error notification, or a time-stamp receipt response or record (collectively “Data Communications”) shall have no force or effect between the parties. All Data Communications shall be transmitted in accordance with NAESB standards and published industry guidelines, and as set forth in the Exhibit and/or TPW. The Exhibit to this Agreement is(are) attached hereto. Any modification of the provisions of this Agreement will also be effective in the annexed Exhibit and/or the separate TPW, as appropriate.

1.2. Third Party Service Providers

1.2.1 Data Communications will be transmitted electronically to each party as specified in the TPW, either directly or through any third party service provider ("Provider") with whom either party may contract. Either party may modify its election to use, not use or change a Provider upon 30 days prior written notice to the other party.

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1.2.2 Each party shall be responsible for the costs of any Provider with whom it contracts, unless otherwise set forth in the Exhibit. Each party shall be responsible for services and performance needed to carry out its responsibilities under this agreement.

1.2.3 Notwithstanding the acts or omissions of its Provider, for purposes of this Agreement, each party is responsible for transmitting, receiving, storing or handling Data Communications to the extent required to effectuate transactions pursuant to Section 2.

1.3 System Operations. Each party, at its own expense, shall provide and maintain the equipment, software, services and testing necessary to transmit Data Communications to, and receive Data Communications from the parties' respective Receipt Computers.

1.4 Security Procedures

1.4.1 Each party shall use those security procedures specified in the NAESB standards and as applied through the specifications set forth in the TPW. The manner in which public encryption keys are to be changed and/or exchanged will be specified in the TPW.

1.4.2 Security Key Exchanges. The parties shall maintain a public key used to facilitate secure electronic communication. The parties shall change their public key as set forth in the Exhibit. However, in emergency situations in which it is necessary to change a key immediately, each party shall provide the other party with immediate notice of the change. Each party shall provide to the other its public key by either: (a) a certified or receipt mail service using a diskette with the public key contained in an ASCII text file; or, (b) an electronic simple mail transfer protocol ("SMTP") mail message with the public key contained in the body. The public key shall be verified by the party to whom it is sent by validating the fingerprint of the public key by phone or by other comparable means.

1.5 Signatures. Each party shall adopt as its signature private keys which shall be applied to each document transmitted by such party ("Digital Signature "). Such Digital Signature, when decrypted by the receiving party, will be used to authenticate the identity of the sender.

Section 2. Transmissions

2.1 Proper Receipt

2.1.1 The "Receipt Computer" shall be defined in this Agreement and in the TPW as the receiving party's Uniform Resource Locator ("URL"), which describes the protocols which are needed to access the resources and point to the appropriate Internet locations. Where the parties employ the services of Providers to transmit and receive Documents, the Receipt Computer shall be defined in this Agreement and in the TPW as the receiving party's URL provided by the receiving party's Provider.

2.1.2 Documents shall not be deemed to have been properly received, and no Document shall give rise to any obligation, until accessible to the receiving party at such party's Receipt Computer designated in the TPW, as evidenced by the receipt by sending party of the HTTP response initiated by receiving party. The HTTP response shall specify the date and time of receipt of a Document at the receiving Internet server (also called "time-c"). No Document shall have any effect if the HTTP response is not received by sending party, or if the HTTP response indicates an error.

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2.2 Digital Signature Verification and Decryption. Upon proper receipt of any Document, the receiving party shall attempt to decrypt the Document and verify the digital signature of the sending party. If the Document is verified and the decryption is successful, the receiving party shall transmit a Functional Acknowledgment in return. If the Document is verified and the decryption is unsuccessful, the receiving party shall send the applicable error message to the sending party. The sending party shall attempt to correct the error and promptly retransmit the Document or otherwise contact the receiving party.

2.3 Functional Acknowledgement and Response Document

2.3.1 For the purposes of this Agreement and the TPW, a "Functional Acknowledgment" means an ASC X12 Transaction Set 997 which confirms a Document has been received and whether all required portions of the Document are syntactically correct or not, but which does not confirm the substantive content(s) of the related Document.

2.3.2 If the Functional Acknowledgment indicates an error, neither party shall rely on the Document. The sending party shall attempt to correct the error and promptly retransmit the Document or otherwise contact the receiving party. If the Functional Acknowledgment does not indicate any error, the Functional Acknowledgment shall constitute conclusive evidence a Document has been received in syntactically correct form.

2.3.3 If there has been proper receipt pursuant to Section 2.1, verification and successful decryption pursuant to Section 2.2, and if the receiving party nevertheless fails to transmit a Functional Acknowledgement, the sending party's records of the contents of the Document shall control, unless the sending party has retransmitted a Document pursuant to Section 2.3.7.

2.3.4 By mutual agreement, the parties may designate in the TPW a "Response Document" Transaction Set as a substitute for or in addition to an ASC X12 Transaction Set 997. A Response Document confirms that a Document has been received, and whether all required portions of the Document are syntactically correct, and contains data sent by the receiving party to the sending party in response to the substantive content of the related Document.

2.3.5 If the Response Document indicates an error, neither party shall rely on the Document or portion of the Document which is in error, if known. The sending party shall attempt to correct the errors and promptly retransmit the Document or applicable portion or otherwise contact the receiving party. If the Response Document does not indicate any error, the Response Document shall constitute conclusive evidence a Document has been received in syntactically correct form.

2.3.6 If the parties have mutually agreed to the use of a Response Document, and if there has been proper receipt pursuant to Section 2.1, verification and successful decryption pursuant to Section 2.2, and if the receiving party nevertheless fails to transmit a Response Document, the sending party's records of the contents of the Document shall control unless the sending party has retransmitted a Document pursuant to Section 2.3.7.

2.3.7 Retransmissions. If the sending party of a Document has not received a corresponding Functional Acknowledgment or Response Document within the time frame indicated in the TPW, the sending party shall contact the receiving party and as appropriate retransmit the Document and such Document shall be considered a new transmission for purposes of Section 2.

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Section 3. Terms

3.1 Transaction Terms and Conditions. This Agreement is intended to facilitate Data Communications between the parties concerning the transactions related to transportation or sales conducted pursuant to underlying written agreements. In the event of conflict between this Agreement and the subject underlying written agreement(s), the terms and conditions of the underlying agreement(s) shall control.

3.2 Terms and Conditions of Reports and Other Information. In the absence of any other written agreement applicable to reports and other information transmitted pursuant to this Agreement, such reports and other information shall be subject to:

[A] those terms and conditions, including any terms for payment, included in the Exhibit; and

[B] such additional terms and conditions as may be determined in accordance with applicable law.

3.3 Change in Terms and Conditions. Notwithstanding Section 4.1 of this Agreement, if any party determines that Data Communications under this Agreement and/or the TPW are altered by a subsequent change to a party's tariff or obligation imposed by a governmental entity exercising jurisdiction over that party, then the affected party shall give immediate notice defining which Data Communications as outlined in the TPW are affected, and the reasons therefore, and may provide notice of termination of this Agreement as provided in Section 4.8, effective immediately upon receipt of such notice by the other party to this Agreement.

3.4. Confidentiality. No information contained in any Document or otherwise exchanged between the parties shall be considered confidential, except to the extent provided in Section 1.5 or in the Exhibit, by written agreement between the parties, or by applicable law.

3.5. Validity: Enforceability

3.5.1 This Agreement has been executed by the parties to evidence their mutual intent to be bound by the terms and conditions set forth herein relating to the electronic transmission and receipt of Data Communications.

3.5.2 Any Document properly transmitted pursuant to this Agreement shall be considered, in connection with any transaction, any other written agreement described in Section 3.1, or this Agreement, to be a "writing" or "in writing"; and any such Document when containing, or to which there is applied, a Digital Signature ("Signed Documents") shall be deemed for all purposes (a) to have been "signed" and (b) to constitute an "original" when printed from electronic files or records established and maintained in the normal course of business.

3.5.3 The parties agree not to contest the validity or enforceability of Signed Documents under the provisions of any applicable law relating to whether certain agreements are to be in writing or signed by the parties to be bound thereby. Signed Documents, if introduced as evidence on paper in any judicial, arbitration, mediation or administrative proceedings, will be admissible as between the parties to the same extent and under the same conditions as other business records originated and maintained in documentary form. Neither party shall contest the admissibility of copies of Signed Documents under either the business records exception to the hearsay rule or the best evidence rule on the basis that the Signed Documents were not originated or maintained in documentary form.

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Section 4. Miscellaneous

4.1 Term. This Agreement shall be effective as of the date first set forth above and shall remain in effect until terminated by either party with not less than 30 days prior written notice specifying the effective date of termination; provided, however, that written notice for purposes of this paragraph shall not include notice provided pursuant to an EDI transaction; further provided, however, that any termination shall not affect the respective obligations or rights of the parties arising under any Documents or otherwise under this Agreement prior to the effective date of termination.

4.2 Severability. Any provision of this Agreement which is determined by any court or regulatory body having jurisdiction over this Agreement to be invalid or unenforceable will be ineffective to the extent of such determination without invalidating the remaining provisions of this Agreement or affecting the validity or enforceability of such remaining provisions.

4.3 Entire Agreement. This Agreement and the Exhibit constitute the complete agreement of the parties relating to the matters specified in this Agreement and supersede all prior representations or agreements, whether oral or written, with respect to such matters. No oral modification or waiver of any of the provisions of this Agreement shall be binding on either party. No obligation to enter into any transaction is to be implied from the execution or delivery of this Agreement. This Agreement and the TPW constitute the entire understanding between the parties regarding EDI.

4.4 No Third Party Beneficiaries. This Agreement is solely for the benefit of, and shall be binding solely upon, the parties, their agents and their respective successors and permitted assigns. This Agreement is not intended to benefit and shall not be for the benefit of any party other than the parties hereto and no other party shall have any right, claim or action as a result of this Agreement.

4.5 Governing Law. This Agreement shall be governed by and interpreted in accordance with the laws of _____ [specify state, commonwealth, province, etc.] of _____, excluding any conflict-of-law rules and principles of that jurisdiction which would result in reference to the laws or law rules of another jurisdiction.

4.6 Force Majeure. No party shall be liable for any failure to perform its obligations in connection with any transaction or any Document, where such failure results from any act of God or other cause beyond such party's reasonable control (including, without limitation, any mechanical, electronic or communications failure) which prevents such party from transmitting or receiving any Documents and which, by the exercise of due diligence, such party is unable to prevent or overcome.

4.7 Exclusion of Certain Damages. Neither party shall be liable to the other for any special, incidental, exemplary, consequential or punitive damages arising from or as a result of any delay, omission or error in the TPW, or in the electronic transmission or receipt of any Data Communications pursuant to this Agreement, even if either party has been advised of the possibility of such damages and REGARDLESS OF FAULT. Any limitation on direct damages to software and hardware arising from Data Communications under this Agreement shall be set forth in the Exhibit.

4.8 Notices. All notices required or permitted to be given with respect to this Agreement shall be given by mailing the same postage prepaid, or given by fax or by courier, or by other

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methods specified in the Exhibit to the addressee party at such party's address as set forth in the Exhibit. Either party may change its address for the purpose of notice hereunder by giving the other party no less than five (5) days prior written notice of such new address in accordance with the preceding provisions.

4.9 Assignment. This Agreement may not be assigned or transferred by either party without the prior written approval of the other party, which approval shall not be unreasonably withheld; provided, any assignment or transfer, whether by merger or otherwise, to a party's affiliate or successor in interest shall be permitted without prior consent if such party assumes this Agreement.

4.10 TPW Technical and Operational Updates. All technical and operating information needed to effectuate the EDI processes defined in the Agreement shall be provided for in the TPW, which may be revised from time to time by a designated technical representative of each trading partner.

4.11 Waivers. No forbearance by any party to require performance of any provisions of this Agreement shall constitute or be deemed a waiver of such provision or the right thereafter to enforce it.

4.12 Counterparts. This Agreement may be executed in any number of original counterparts all of which shall constitute one and the same instrument.

4.13 Reference Glossary. This section lists each defined term in this Agreement and cross references that term to its definition in the Agreement.

DEFINED TERM	WHERE DEFINED
Agreement	Header
Data Communications	Section 1.1
Digital Signature	Section 1.5
Documents	Section 1.1
Electronic Data Interchange, EDI	Recital
Functional Acknowledgment	Section 2.3.1
parties	Header
Provider	Section 1.2.1
Receipt Computer	Section 2.1.1
Response Document	Section 2.3.4
Signed Documents	Section 3.5.2
time-c	Section 2.1.2
Uniform Resource Locator, URL	Section 2.1.1

Each party has caused this Agreement to be properly executed on its behalf as of the date first above written.

Company Name: _____	Company Name: _____
By: _____	By: _____
Name: _____	Name: _____
Title: _____	Title: _____

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EXHIBIT

DATED _____ TO BE EFFECTIVE _____ (date)

1. Contact Information:
   Company: _____
   Street Address: _____
   City: _____
   State/Province/Commonwealth: _____
   Zip/Postal Code: _____
   Attention [Name, Title]:_____
   Telephone: _____
   Fax: _____
   Email Address: _____
   Legal Entity Common Code (D-U-N-S®(Number): _____
   (A registered trademark of Dun & Bradstreet Corporation)

   Company: _____
   Street Address: _____
   City: _____
   State/Province/Commonwealth: _____
   Zip/Postal Code: _____
   Attention [Name, Title]:_____
   Telephone: _____
   Fax: _____
   Email Address: _____
   Legal Entity Common Code (D-U-N-S®(Number): _____
   (A registered trademark of Dun & Bradstreet Corporation)

2. Terms and Conditions: (If no special terms and conditions have been agreed upon, enter "None.")
   _____

3. Limitation on Direct Damages: (If no limitation has been agreed upon, enter "None.")
   _____

4. Confidential Information: (See Section 3.4. If no limitation has been agreed upon, enter "None.")
   _____

The undersigned do hereby execute this Exhibit pursuant to the Agreement attached and do hereby ratify said Agreement for all purposes set forth in this Exhibit.

Company Name:_____ Company Name:_____

By:_____ By:_____

Printed Name: _____ Printed Name: _____

Title:_____ Title:_____

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Trading Partner Worksheet (TPW)

The information below is effective on the day of , . This information and revisions thereto may be set forth on this document or its electronic equivalent (email or facsimile, sent by a designated representative of one party to a designated representative of the other party).

Contact Information

Company Name	*(Insert Trading Partner 1)*	*(Insert Trading Partner 2)*
Business Representative:		
Telephone:		
After Hours Support:		
Fax:		
E-mail:		
Technical Representative:		
Telephone:		
After Hours Support:		
Fax:		
E-mail:		
Third Party Provider Company (if applicable):		
Contact Name:		
Telephone:		
After Hours Support:		
Fax:		
E-mail:		

Communication Specifications

Company Name	*(Insert Trading Partner 1)*	*(Insert Trading Partner 2)*
Versions:		
NAESB standards		
Internet ET/QEDM		
Misc Header:		
HTTP to/from tag (DUNS Number):		
Using MA data element 'refnum'/'refnum-orig' in Request? (Y/N)		
Using MA data element 'time-c-qualifier' in Receipt? (Y/N)		
Using MA data element 'transaction-set' in Request? (Y/N)		
Test URL		
Receipt Computer URL (host name or IP address, directory and program name, port)		
ID:		
Password:		
Production URL		
Receipt Computer URL (host name or IP address, directory and program name, port)		
ID:		
Password:		

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Trading Partner Worksheet (TPW)

Public Encryption Key Exchange Procedures

Define security procedures, including but not limited to encryption, authentication, and GPG or PGP version.

Company Name	*(Insert Trading Partner 1)*	*(Insert Trading Partner 2)*
PGP Public Key		
Finger Print		
User ID (Alpha, spaces, numbers only; no special characters)		
Decryption After Receipt/Using Error Notification Transaction (Yes/No)		
Contact name and related information (phone number and/or e-mail address) for public encryption key exchange	Scheduled:	Scheduled:
	Emergency:	Emergency:
Chosen electronic method of key exchange		
Scheduled public encryption key exchange procedures including frequency		
Verification procedures to confirm appropriate exchange of public encryption keys		
Other		

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Trading Partner Worksheet (TPW)

Transaction Set Information

Company Name	*(Insert Trading Partner 1)*	*(Insert Trading Partner 2)*
Sub element delimiters/Data Element delimiters/Segment terminators	Sub: Data: Segment:	Sub: Data: Segment:
Functional Acknowledgments (997) required?		

Please fill in the information for the transaction sets to be tested.

Test

			Sending Party's			Receiving Party's			Responses
Transaction Set Number	**NAESB Version**	**Natural Gas Document Name**	**ISA Qualifier (ISA05)**	**ISA ID (ISA06)**	**GS ID (GS02)**	**ISA Qualifier (ISA07)**	**ISA ID (ISA08)**	**GS ID (GS03)**	**FA/RD time frame (minutes)**

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Trading Partner Worksheet (TPW)

Please fill in the information for the transaction sets to be implemented for production.

Production

			Sending Party's			Receiving Party's			Responses
Transaction Set Number	NAESB Version	Natural Gas Document Name	ISA Qualifier (ISA05)	ISA ID (ISA06)	GS ID (GS02)	ISA Qualifier (ISA07)	ISA ID (ISA08)	GS ID (GS03)	FA/RD time frame (minutes)

Effective Date: _____

Company Name: _____
Designated Representative
By: _____
Printed Name: _____
Title: _____

Company Name: _____
Designated Representative
By: _____
Printed Name: _____
Title: _____

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Trading Partner Agreement & Trading Partner Worksheet
Frequently Asked Questions

Why is there a Trading Partner Agreement and a Trading Partner Worksheet?

The original Trading Partner Agreement (TPA) has been separated with the intent of dividing the legal language from the technical specifications (contained in the original TPA Exhibit). The revised TPA contains legal language and a revised Exhibit. The revised Exhibit contains only the non-technical portions of the original Exhibit. The technical portions of the original Exhibit have been incorporated into the Trading Partner Worksheet (TPW).
Industry and overall technical experience indicate that while the legal language/arrangements remain the same, many of the technical details change over the course of time. Separation of these documents provides trading partner(s) the ability to administer changes independently of one another. For example, a trading partner's technical manager or staff may administer changes to the TPW while a legal department may administer changes to the TPA. The TPA and TPW are still considered NAESB WGQ Standard No. 6.3.3 and collectively indicate the entire understanding between the trading partners regarding EDI.

What is the impact of Trading Partner Worksheet on the Trading Partner Agreement?

The TPW has been created to focus on technical details that enable the two parties to electronically communicate with one another. These details often change over time during the normal course of business at one or both of the trading partners. By separating the technical details from the "legal" language it allows companies to delegate the signature authority for technical changes to a department other than legal. The TPW is still a significant part of the overall understanding between the two trading partners and works in conjunction with the TPA to facilitate electronic communications, data transfer to/from each trading partner.

Why is Contact Information included in the Trading Partner Agreement Exhibit and the Trading Partner Worksheet?

The contact information in the TPA Exhibit is intended to be a legal or contractual contact for each trading partner.
TPA paragraph 4.8 refers to providing termination notice to the party listed in the Exhibit. This person is in all likelihood a contractual or legal representative of the Trading Partner and not necessarily the business or technical contact listed in the TPW.

What modifications were made to the Trading Partner Worksheet that were not in the original Trading Partner Agreement Exhibit?

The TPW is a compilation of technical specification elements captured from various sources. Most elements exist(ed) in the technical portion of the original TPA Exhibit or Internet ET Appendix C - Sample Technical Exchange Worksheet. Some new elements were captured based on other commonly used technical setup information. Examples of new elements are: supported dataset/standards version, supported dataset separators, Like information has been similarly formatted and appropriately grouped.

What is meant by "designated representative" in the Trading Partner Worksheet?

A trading partner may choose to appoint a specific person or persons who have the authority to complete and distribute changes to the TPW. Such appointment is at the discretion of each trading partner according to its own business practices.

ON PAGE 6 OF THE INTERNET ET VERSION 1.8 MANUAL

KEY ASSUMPTIONS

This document makes the following assumptions:

- **Platform Independence.** An Internet ET implementation can communicate with all trading partners in the energy industry, regardless what hardware, operating system and programming languages trading partners use.
- **Open Standards.** NAESB has adopted open standard technologies to provide flexibility and scalability.
- **Payload Content Independence.** Internet ET standards focus on the transport of the electronic package, and not the contents of the package. Each business process may define different contents. Internet ET is designed to work with any type of content (e.g. EDI, flat files, etc). The Internet ET's main function is to get the package from point X to point Y reliably with privacy, authentication, integrity, and non-repudiation.
- **Importance of the Trading Partner Worksheet (TPW)**. Internet ET relies on the exchange of technical information between trading partners to establish and maintain reliable Internet ET production. This worksheet is intended to establish communications between two parties. Additional requirements and information may be required. Refer to your quadrant-specific EDM (QEDM). The TPW is included with the NAESB Trading Partner Agreement (TPA). The TPW and TPA constitute the entire understanding between the trading partners regarding EDI.

ON PAGE 9 OF THE INTERNET ET VERSION 1.8 MANUAL

TAB 8 Appendices

Table 1 – Internet ET Standard Error Codes and Messages

Appendix A – Reference Guide

Appendix B – Frequently Asked Questions

Appendix C – Cross-Reference Between Internet Electronic Transport (ET) and WGQ EDM Version 1.7

ON PAGE 10 OF THE INTERNET ET VERSION 1.8 MANUAL

Roles in Internet ET

In the Internet ET life-cycle, one party sends a package, and the other party receives the package. The party sending the package is referred to as the Sender or Client, and the party receiving the package is also referred to as the Receiver or Server.

NAESB business processes often require that parties act in both the Sender and Receiver roles. For example, once the Receiver of a payload file of Nominations has successfully processed the payload, they switch to the Sender role to send Nomination acknowledgements back to the original Sender. Internet ET implementations may need to implement both Sender and Receiver capabilities.

The standards adopted for Internet ET should be adhered to by the trading parties as minimum standards. A trading party may offer additional functions or features as options but should not require their use. Such additional features or functions are termed 'mutually agreed to'. If both trading partners agree on the inclusion, the additional feature requirements will be met. If either trading party does not agree to the inclusion of additional features, then the partners must allow for transmission and receipt of data using the minimum standards.

To establish an Internet ET trading partnership with another company, a company needs to exchange technical information about their Internet ET implementation. This may include:

- Contact information
- Public Keys, including key exchange and update policies
- Test URLs
- Production URLs, including alternative paths if available
- Common Code Identifiers (e.g. DUNS number)
- Use of 'time-c-qualifier' if in REQ or RGQ

This information is exchanged using the TPW.

ON PAGE 16 OF THE INTERNET ET VERSION 1.8 MANUAL

10.2.8 'Trading Partner Agreement', or 'TPA' is a legal agreement between trading parties. The TPA often dictates service level agreements and problem remediation processes.

ON PAGE 17 OF THE INTERNET ET VERSION 1.8 MANUAL

10.2.30 Trading Partner Worksheet or 'TPW' is used to communicate important technical information related to the technical implementation of the Internet ET. The TPW is the technical supplement to the TPA.

ON PAGE 38 OF THE INTERNET ET VERSION 1.8 MANUAL

Receiving Process URL Implementation Guidelines

Each company must offer at least one URL to accept files using Internet ET. Companies can offer multiple URLs. Though companies are free to construct a Web site with multiple 'single-purpose' URLs (e.g. nominations.xyzcorp.com; enrollments.xyzcorp.com) NAESB recommends the use of one 'general-purpose' URL.

The Receiving Program may initiate error notifications after the 'gisb-acknowledgement-receipt' is sent (e.g. file decryption errors). Error notifications posted to the Sender would be directed to the Sender's general-purpose URL.

All URLs that will be required for use in the Internet ET process must be agreed to and defined in the TPW.

HTTP Response 'gisb-acknowledgement-receipt' Data Elements

Required HTTP Response Data Elements (listed in the required order)	
WGQ	REQ/RGQ
time-c request-status server-id trans-id	time-c time-c-qualifier request-status server-id trans-id

ON PAGE 48 OF THE INTERNET ET VERSION 1.8 MANUAL

NAESB INTERNET ET TEST GUIDELINES

Implementation of Internet ET requires testing to assure all parties are prepared to operate according to the Internet ET. This document focuses on testing standards for establishing Internet ET connectivity with a trading partner. Testing for transaction and other Quadrant-specific testing standards can be found in each Quadrant's QEDM.

Internet ET Connectivity testing standards may include:

- Connectivity test scripts. These scripts define the steps needed to adequately test connectivity.
- TPW is a worksheet that defines important operations parameters for a trading partner including testing parameters. The parameters include Internet ET URL's, contacts and other information.

ON PAGE 57 OF THE INTERNET ET VERSION 1.8 MANUAL

ON PAGE 58 & 59 OF THE INTERNET ET VERSION 1.8 MANUAL

APPENDIX C - CROSS-REFERENCE BETWEEN INTERNET ELECTRONIC TRANSPORT (ET) AND WGQ EDM VERSION 1.7

'**' denotes that actual language of the WGQ EDM standard differs from the language of the Internet ET standard. This cross-reference was prepared in March of 2004. It is intended to be a resource to help implementers find sections from the old WGQ EDM in the new Internet ET standard.

Internet ET Standard	WGQ EDM Standard	Internet ET Standard Narrative
0.1.1	0.1.1	An entity is a person or organization with sufficient legal standing to enter into a contract or arrangement with another such person or organization (as such legal standing may be determined by those parties) for the purpose of conducting and/or coordinating energy transactions.
0.1.2	0.1.2	There should be a unique entity common code for each entity name and there should be a unique entity name for each entity common code.
0.3.1	0.3.1	Entity common codes should be 'legal entities', that is, Ultimate Location, Headquarters Location, and/or Single Location (in Dun & Bradstreet Corporation ('D&B') terms). However, in the following situations, a Branch Location (in D&B terms) can also be an entity common code: 1) when contracting party provides a DUNS Number at the Branch Location level; OR 2) to accommodate accounting for an entity that is identified at the Branch Location level.
10.1.1	4.1.2.	The Internet Electronic Transport (ET) does not pick winners, rather it should create an environment where the marketplace can dictate a winner or winners
10.1.2	4.1.3.	Internet ET solutions should be cost effective, simple and economical
10.1.3	4.1.4.	Internet ET solutions should provide for a seamless marketplace for energy
10.1.4	4.1.6.	Parties should interface with third-party vendors according to NAESB Internet ET standards
10.1.5	4.1.7.	Electronic communications between parties to the transaction should be done on a non-discriminatory basis, whether through an agent or directly with any party to the transaction
10.1.6	4.1.12.	Protocols and tools that parties elect to support should be 'Internet-compatible'
10.1.7	4.1.14.	The industry should use standard policies and guidelines for testing
10.1.8	4.1.15.	The NAESB Internet ET should not set standards for site-level security. Individual organization security standards should be relied upon
10.1.9	4.1.36.	Trading partners should maintain redundant connections to the public Internet for NAESB Internet ET Web sites. These redundant connections should be topographically diverse (duality of) paths to minimize the probability of a single point of failure
10.1.10	4.1.39.	Trading Partners should mutually select and use a version of the NAESB Internet ET standards under which to operate, unless specified otherwise by government agencies. Trading Partners should also mutually agree to adopt later versions of the NAESB Internet ET standards, as needed, unless specified otherwise by government agencies
10.2.1	4.2.20.	'Internet ET Testing'. Testing electronic packages between trading partners includes testing of: A) Connectivity; B) Encryption/Decryption; and C) Digital signatures where appropriate
10.2.2	4.2.21**	'Fail-over' defines a prescribed process executed when a NAESB Internet ET Client fails to establish a connection to the target NAESB Internet ET Server
10.2.3	4.2.22**	'Trading Partner' is a party that enters into an agreement with another party to transact business electronically using the Internet ET standard
10.2.4	4.2.23**	'Originating party' is any party originating/creating the package. This could also include a third-party
10.2.5	4.2.24**	'Third-Party' is any organization that a trading party uses to provide services to comply with the required elements of the Internet ET
10.2.6	4.2.25**	'Receiving Party' is any party that hosts (either in-house or outsourced) an Internet ET compliant server capable of receiving Internet ET packages
10.2.7	4.2.25**	'Receiving Program' is a program or set of programs that process HTTP Requests from a

Internet ET Standard	WGQ EDM Standard	Internet ET Standard Narrative
		Sender. The Receiving Program is responsible for generating the 'gisb-acknowledge-receipt', which includes any party that hosts (either in-house or outsourced) an Internet ET compliant server capable of receiving Internet ET packages
10.2.8	4.2.26**	'Trading Partner Agreement', or 'TPA' is a legal agreement between trading parties. The TPA often dictates service level agreements and problem remediation processes.

ON PAGE 4 OF THE WGQ QEDM VERSION 1.8 MANUAL

Importance of the Trading Partner Agreement When Using Internet ET and WGQ QEDM

The Trading Partner Agreement (TPA) specifies what functions each party should perform in electronic transactions. Additionally, the Trading Partner Worksheet (TPW) outlines basic connectivity information between trading partners. The TPA and TPW constitute the entire understanding between trading partners regarding EDI. The specifications in the TPW should be tested before reliance on the production implementation for business transactions.

ON PAGE 24 OF THE WGQ QEDM VERSION 1.8 MANUAL

Importance of the NAESB WGQ Trading Partner Agreement

The NAESB WGQ Trading Partner Agreement (TPA) provides a standardized contractual agreement to facilitate electronic exchange of documents between trading partners.

The TPA (NAESB WGQ Standard 6.3.3) specifies what functions are to be performed and by whom during an EDI/EDM or FF/EDM data exchange. In addition, the TPW (NAESB WGQ Standard No. 6.3.3.TPW) outlines basic communication information. The specifications in the TPW should be tested before production implementation.

ON PAGE 62 OF THE WGQ QEDM VERSION 1.8 MANUAL

NAESB WGQ Electronic Data Interchange Trading Partner Agreement

In 1998, GISB adopted Standard 6.3.3, the NAESB WGQ Electronic Data Interchange Trading Partner Agreement (TPA) for exchange of data within the gas industry. In 2009, the TPA was updated to seperate the technical information into the TPW. The NAESB WGQ TPA and TPW defines the relationship of the sender and receiver of NAESB WGQ Standard ASC X12 documents. Collectively these documents represent a complete set of balanced terms which a company should accept whether it is sender or receiver of electronic documents. It has established all the data items necessary to exchange electronic documents in a step by step, fill in the blank model form. The use of the TPA and TPW minimizes preparation, negotiation and review time. Copies of the TPA and TPW may be obtained from the NAESB office or may be downloaded from the NAESB home page at www.naesb.org.

ON PAGE 10 OF THE RXQ QEDM VERSION 1 MANUAL

RXQ.0.2.85 'Trading Partner Worksheet or 'TPW' is used to communicate important technical information related to the technical implementation of the Internet ET. The TPW is the technical supplement to the TPA.

ON PAGE 12 OF THE RXQ QEDM VERSION 1 MANUAL

C. TRADING PARTNER AGREEMENT

Importance of the Trading Partner Agreement When Using Internet ET and RXQ QEDM

The Trading Partner Agreement (TPA) specifies what functions each party should perform in electronic transactions. Additionally, the Trading Partner Worksheet (TPW) outlines basic connectivity information between trading partners. The TPA and TPW constitute the entire understanding between trading partners regarding EDI. The specifications in the TPA and TPW should be tested before reliance on the production implementation for business transactions.

ON PAGE 17 OF THE RXQ QEDM VERSION 1 MANUAL

ISA Outer Envelope

The ISA segment marks the beginning of an X.12 document. It can be equated to an envelope that a paper document would come in via the mail. The envelope may contain one or more 'inner envelope' functional groups (defined by the GS segment) and one or more transaction sets.

RXQ.5.3.3.3 The ISA is the interchange control segment to be used on all NAESB ANSI ASC X.12 model business practices.

The ISA segment identifies the sender and receiver of the document. The Interchange Sender ID/Interchange Receiver ID is published by both the sender and receiver for other parties to use as the sender/receiver ID to route data to them. The

Sender must always code the Sender's ID in the sender element and the designated Receiver's ID in the Receiver ID.

This sender and receiver information is specified in the Trading Partner Worksheet (TPW) or Trading Partner Agreement.

There are additional elements in the ISA segment. These elements are traditionally assigned by the sending party's translator. These elements inform the receiver of the date/time that the envelope was generated, the X.12 version number being utilized, whether the transmission is for test or production purposes, and what characters were used to designate the end of a sub element, element or segment.

The ISA also defines characters for the sub element (ISA position 105), element (ISA position 4), and segment delimiters (ISA position 106). These delimiting characters must never appear in the data. The ISA is the only fixed-length X.12 segment as it uses specific positions in the segment to identify the delimiter characters. The TPW provides a section for parties to define their default delimiters. However, receiving parties should always check the above ISA positions for EDI/EDM delimiters.

An outer envelope always begins with an ISA segment and ends with an IEA segment.

ON PAGE 22 OF THE RXQ QEDM VERSION 1 MANUAL

APPENDICES

A – REFERENCE GUIDE

B – FREQUENTLY ASKED QUESTIONS

C – RXQEDM / INTERNET ET 2.0 CROSS-REFERENCE

ON PAGE 27 OF THE RXQ QEDM VERSION 1 MANUAL

On Page 28 of the RXQ QEDM Version 1 Manual

APPENDIX C – RXQ QEDM / INTERNET ET 2.0 CROSS-REFERENCE

On Page 31 of the RXQ QEDM Version 1 Manual

RXQ.0.2.43	'Trading Partner Agreement', or 'TPA' is a legal agreement between trading parties. The TPA often dictates service level agreements and problem remediation processes.	4.2.26	DOES NOT EXIST	RXQ.0.2.63	'Trading Partner Agreement', or 'TPA' is a legal agreement between trading parties. The TPA often dictates service level agreements and problem remediation processes.

Trading Partner Worksheet (TPW)

The information below is effective on the day of , . This information and revisions thereto may be set forth on this document or its electronic equivalent (email or facsimile, sent by a designated representative of one party to a designated representative of the other party).

[See CHAIRS response to ANR TPW comments. CHAIRS agree to comments by TransCanada below on Contact Information and Communication Specifications. For Transaction Set Information CHAIRS …(to be determined)..]

Contact Information

Company Name	*(Insert Trading Partner 1)*	*(Insert Trading Partner 2)*
Primary Business Representative:		
Telephone:		
After Hours Support:		
Fax:		
E-mail		
Secondary Business Representative		
Telephone		
After Hours Support		
Fax		
E-mail:		
Primary Technical Representative:		
Telephone:		
After Hours Support:		
Fax:		
E-mail		
Secondary Technical Representative		
Telephone		
After Hours Support		
Fax		
E-mail:		
Third Party Provider Company (if applicable):		
Contact Name:		
Telephone:		
After Hours Support:		
Fax:		
E-mail:		

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Trading Partner Worksheet (TPW)

Communication Specifications

Company Name	*(Insert Trading Partner 1)*	*(Insert Trading Partner 2)*
Versions:		
NAESB standards		
Internet ET/QEDM		
Misc Header:		
HTTP to/from tag (DUNS Number – Entity Common Code):		
Test		
Production		
Using MA data element 'refnum'/'refnum-orig' in Request? (Y/N)		
Using MA data element 'time-c-qualifier' in Receipt? (Y/N)		
Using MA data element 'transaction-set' in Request? (Y/N)		
Test URL		
Receipt Computer URL (host name or IP address, directory and program name, port)		
ID:		
Password:		
Production URL		
Receipt Computer URL (host name or IP address, directory and program name, port)		
ID:		
Password:		

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Trading Partner Worksheet (TPW)

Public Encryption Key Exchange Procedures

Define security procedures, including but not limited to encryption, authentication, and GPG or PGP version.

Company Name	*(Insert Trading Partner 1)*	*(Insert Trading Partner 2)*
PGP Public Key		
Finger Print		
User ID (Alpha, spaces, numbers only; no special characters)		
Decryption After Receipt/Using Error Notification Transaction (Yes/No)		
Contact name and related information (phone number and/or e-mail address) for public encryption key exchange	Scheduled:	Scheduled:
	Emergency:	Emergency:
Chosen electronic method of key exchange		
Scheduled public encryption key exchange procedures including frequency		
Verification procedures to confirm appropriate exchange of public encryption keys		
Other		

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Trading Partner Worksheet (TPW)

Transaction Set Information

Company Name	*(Insert Trading Partner 1)*	*(Insert Trading Partner 2)*
Sub element delimiters/Data Element delimiters/Segment terminators	Sub: Data: Segment:	Sub: Data: Segment:
Functional Acknowledgments (997) required?		
ISA Qualifier / ISA ID		
Test	/	/
Production	/	/

Please fill in the information for the transaction sets and indicate in the Environment column whether it is for Test (T), Production (P) or both (B).

Environment (T, P or Both)	NAESB Version	Transaction Set Number	Natural Gas Document Name	Sending Party's GS ID (GS02)	Receiving Party's GS ID (GS03)	FA/RD time frame (minutes)

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Trading Partner Worksheet (TPW)

.

Effective Date: _____

Company Name: _____	Company Name: _____
Designated Representative	Designated Representative
By: _____	By: _____
Printed Name: _____	Printed Name: _____
Title: _____	Title: _____

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ANR Pipeline
TPA Comments

Section 1. Prerequisites

1.1 Data Communications. Each party may electronically transmit to or receive from the other party any of the North American Energy Standards Board ("NAESB") transaction sets (collectively "Documents"). The Trading Partner Worksheet (TPW) identifies such Documents and additional technical specifications. The TPW acts as a technical supplement to this Agreement, but is not incorporated in or considered a part of this Agreement. Any transmission of data which is not a Document, a Functional Acknowledgement, an electronic delivery mechanism error notification, or a time-stamp receipt response or record (collectively "Data Communications") shall have no force or effect between the parties. All Data Communications shall be transmitted in accordance with NAESB standards and published industry guidelines, and as set forth in the Exhibit and/or TPW. The Exhibit to this Agreement is(are) attached hereto. Any modification of the provisions of this Agreement will also be effective in the annexed Exhibit and/or the separate TPW, as appropriate.

- Remove (are) since the (s) was removed after Exhibit

[CHAIRS AGREE WITH THIS COMMENT]

Just a question – I had one customer whose attorney wanted to modify the TPA to capitalize the word party or parties throughout the agreement – i.e. change to Party or Parties. Is that something that should be considered?

[CHAIRS DO NOT AGREE WITH THIS COMMENT]

1.2.2 Each party shall be responsible for the costs of any Provider with whom it contracts, unless otherwise set forth in the Exhibit. Each party shall be responsible for services and performance needed to carry out its responsibilities under this agreement.

- **Capitalize agreement - i.e. this Agreement.**

[CHAIRS AGREE WITH THIS COMMENT]

ON PAGE 62 OF THE WGQ QEDM VERSION 1.8 MANUAL

NAESB WGQ Electronic Data Interchange Trading Partner Agreement

In 1998, GISB adopted Standard 6.3.3, the NAESB WGQ Electronic Data Interchange Trading Partner Agreement (TPA) for exchange of data within the gas industry. In 2009, the TPA was updated to separate the technical information into the TPW. The NAESB WGQ TPA and TPW defines the relationship of the sender and receiver of NAESB WGQ Standard ASC X12 documents

Deleted: seperate

[CHAIRS AGREE WITH THIS COMMENT]

ANR Pipeline
TPW Comments

1) Prefer that only one transaction set grid exist in the document for *Transaction Set Data* - i.e. not one for Test and one for Production. Suggested changes to make this possible are as follows
    (a) Take the ISA Qualifier and ISA id fields out of the grid (ISA05, ISA06, ISA07 and ISA08)
    (b) Add two additional rows in the header box on the Trading Partner Worksheet
        (i) Test ISA Interchange Qualifier / ID
        (ii) Production ISA Interchange Qualifier / ID
    (c) Add an additional column in the transaction set grid to indicate whether the transaction set is for Test, Production or both i.e. (T,P,B)

2) Re the field HTTP to/from tag (DUNS Number) under *Communication Specifications*
    (a) I have seen customers refer to this as NAESB Common Code identifier or just common code. Since error messages associated with the 'to' or 'from' field reference common code in the description i.e. **EEDM100 Missing 'from' Common Code Identifier code** or **EEDM106 Invalid 'to' Common Code identifier** can we make this more descriptive.
    (b) In addition customers are not just using their DUNS Number for the HTTP to/from tag – i.e. in some instances they are adding a suffix to differentiate the production from the test environment. The Communication specifications section needs to allow both test and production values to be entered.

3) *Contact Information* – For Technical and Business Representative Contacts change the form to allow primary and *secondary* contact information.

ANR Pipeline
TPA Comments

Section 1. Prerequisites

1.1 Data Communications. Each party may electronically transmit to or receive from the other party any of the North American Energy Standards Board ("NAESB") transaction sets (collectively "Documents"). The Trading Partner Worksheet (TPW) identifies such Documents and additional technical specifications. The TPW acts as a technical supplement to this Agreement, but is not incorporated in or considered a part of this Agreement. Any transmission of data which is not a Document, a Functional Acknowledgement, an electronic delivery mechanism error notification, or a time-stamp receipt response or record (collectively "Data Communications") shall have no force or effect between the parties. All Data Communications shall be transmitted in accordance with NAESB standards and published industry guidelines, and as set forth in the Exhibit and/or TPW. The Exhibit to this Agreement is(are) attached hereto. Any modification of the provisions of this Agreement will also be effective in the annexed Exhibit and/or the separate TPW, as appropriate.

- Remove (are) since the (s) was removed after Exhibit

Just a question – I had one customer whose attorney wanted to modify the TPA to capitalize the word party or parties throughout the agreement – i.e. change to Party or Parties. Is that something that should be considered?

1.2.2 Each party shall be responsible for the costs of any Provider with whom it contracts, unless otherwise set forth in the Exhibit. Each party shall be responsible for services and performance needed to carry out its responsibilities under this agreement.

- **Capitalize agreement - i.e. this Agreement.**

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Deleted: seperate

ANR Pipeline
TPW Comments

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    (a) Take the ISA Qualifier and ISA id fields out of the grid (ISA05, ISA06, ISA07 and ISA08)
    (b) Add two additional rows in the header box on the Trading Partner Worksheet
        (i) Test ISA Interchange Qualifier / ID
        (ii) Production ISA Interchange Qualifier / ID
    (c) Add an additional column in the transaction set grid to indicate whether the transaction set is for Test, Production or both i.e. (T,P,B)

2) Re the field HTTP to/from tag (DUNS Number) under *Communication Specifications*
    (a) I have seen customers refer to this as NAESB Common Code identifier or just common code. Since error messages associated with the 'to' or 'from' field reference common code in the description i.e. **EEDM100 Missing 'from' Common Code Identifier code** or **EEDM106 Invalid 'to' Common Code identifier** can we make this more descriptive.
    (b) In addition customers are not just using their DUNS Number for the HTTP to/from tag – i.e. in some instances they are adding a suffix to differentiate the production from the test environment. The Communication specifications section needs to allow both test and production values to be entered.

3) *Contact Information* – For Technical and Business Representative Contacts change the form to allow primary and *secondary* contact information.

Trading Partner Worksheet (TPW)

The information below is effective on the day of , . This information and revisions thereto may be set forth on this document or its electronic equivalent (email or facsimile, sent by a designated representative of one party to a designated representative of the other party).

Contact Information

Company Name	*(Insert Trading Partner 1)*	*(Insert Trading Partner 2)*
Primary Business Representative:		
Telephone:		
After Hours Support:		
Fax:		
E-mail		
Secondary Business Representative		
Telephone		
After Hours Support		
Fax		
E-mail:		
Primary Technical Representative:		
Telephone:		
After Hours Support:		
Fax:		
E-mail		
Secondary Technical Representative		
Telephone		
After Hours Support		
Fax		
E-mail:		
Third Party Provider Company (if applicable):		
Contact Name:		
Telephone:		
After Hours Support:		
Fax:		
E-mail:		

Communication Specifications

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Trading Partner Worksheet (TPW)

Company Name	*(Insert Trading Partner 1)*	*(Insert Trading Partner 2)*
Versions:		
NAESB standards		
Internet ET/QEDM		
Misc Header:		
HTTP to/from tag (DUNS Number – Entity Common Code):	_____	_____
Test	_____	_____
Production	_____	_____
Using MA data element 'refnum'/'refnum-orig' in Request? (Y/N)		
Using MA data element 'time-c-qualifier' in Receipt? (Y/N)		
Using MA data element 'transaction-set' in Request? (Y/N)		
Test URL		
Receipt Computer URL (host name or IP address, directory and program name, port)		
ID:		
Password:		
Production URL		
Receipt Computer URL (host name or IP address, directory and program name, port)		
ID:		
Password:		

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Trading Partner Worksheet (TPW)

Public Encryption Key Exchange Procedures

Define security procedures, including but not limited to encryption, authentication, and GPG or PGP version.

Company Name	*(Insert Trading Partner 1)*	*(Insert Trading Partner 2)*
PGP Public Key		
Finger Print		
User ID (Alpha, spaces, numbers only; no special characters)		
Decryption After Receipt/Using Error Notification Transaction (Yes/No)		
Contact name and related information (phone number and/or e-mail address) for public encryption key exchange	Scheduled:	Scheduled:
	Emergency:	Emergency:
Chosen electronic method of key exchange		
Scheduled public encryption key exchange procedures including frequency		
Verification procedures to confirm appropriate exchange of public encryption keys		
Other		

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Trading Partner Worksheet (TPW)

Transaction Set Information

Company Name	*(Insert Trading Partner 1)*	*(Insert Trading Partner 2)*
Sub element delimiters/Data Element delimiters/Segment terminators	Sub: Data: Segment:	Sub: Data: Segment:
Functional Acknowledgments (997) required?		
ISA Qualifier / ISA ID		
Test	/	/
Production	/	/

Please fill in the information for the transaction sets and indicate in the Environment whether it is for Test (T), Production (P) or both (B).~~to be tested~~.

~~Test~~

				~~Responses~~		
				Sending Party's	Receiving Party's	
Environment (T, P or B)	Transaction Set Number	NAESB Version	Natural Gas Document Name	GS ID (GS02)	GS ID (GS03)	FA/RD time frame (minutes)

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Trading Partner Worksheet (TPW)

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Trading Partner Worksheet (TPW)

Please fill in the information for the transaction sets to be implemented for production.

Production

			Sending Party's			Receiving Party's			Responses
Transaction Set Number	NAESB Version	Natural Gas Document Name	ISA Qualifier (ISA05)	ISA ID (ISA06)	GS ID (GS02)	ISA Qualifier (ISA07)	ISA ID (ISA08)	GS ID (GS03)	FA/RD time frame (minutes)

Effective Date: _____

Company Name: _____
Designated Representative
By: _____
Printed Name: _____
Title: _____

Company Name: _____
Designated Representative
By: _____
Printed Name: _____
Title: _____

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From: Iris.G.King
Sent: Wednesday, April 08, 2009 12:09 PM
To: naesbmail@nasb.org
Subject: Re: NAESB WGQ Request for Formal Comments on Recommendation R07014 - Due 5/7/09

DTI approves the following.

2009 WGQ Annual Plan Item 9
R08015, 2009 WGQ annual Plan Item 2.b
R07014

Thanks,
Iris King

CONFIDENTIALITY NOTICE: This electronic message contains information which may be legally confidential and or privileged and does not in any case represent a firm ENERGY COMMODITY bid or offer relating thereto which binds the sender without an additional express written confirmation to that effect. The information is intended solely for the individual or entity named above and access by anyone else is unauthorized. If you are not the intended recipient, any disclosure, copying, distribution, or use of the contents of this information is prohibited and may be unlawful. If you have received this electronic transmission in error, please reply immediately to the sender that you have received the message in error, and delete it. Thank you.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**REQ/RGQ BPS**
Request No.:	**2009 Annual Plan Item No. 4.a – Part 1:**
Request Title:	**Develop Model Business Practices and procedures for responding to Customer inquiries directed to Distributors and/or Suppliers and for notification of the other party.**

1. RECOMMENDED ACTION:

___Accept as requested
__X__Accept as modified below
___Decline

EFFECT OF EC VOTE TO ACCEPT RECOMMENDED ACTION:
__X__Change to Existing Practice
___Status Quo

2. TYPE OF DEVELOPMENT/MAINTENANCE

Per Request:	**Per Recommendation:**
___Initiation	___Initiation
__X__Modification	__X__Modification
___Interpretation	___Interpretation
___Withdrawal	___Withdrawal
___Principle	___Principle
___Definition	___Definition
__X__Business Practice Standard	__X__Business Practice Standard
___Document	___Document
___Data Element	___Data Element
___Code Value	___Code Value
___X12 Implementation Guide	___X12 Implementation Guide
___Business Process Documentation	___Business Process Documentation

3. RECOMMENDATION

SUMMARY:

Revise the Billing Services Agreement Outline in RXQ.6.4 to include the ability for the Billing Party to provide billing inquiry resolution services on behalf of the Non-Billing Party.

RECOMMENDED STANDARDS:

RXQ.6.4 Billing Services Agreement Agreement For Consolidated Billing

BILLING OBLIGATIONS AND OPTIONS

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**REQ/RGQ BPS**
Request No.:	**2009 Annual Plan Item No. 4.a – Part 1:**
Request Title:	**Develop Model Business Practices and procedures for responding to Customer inquiries directed to Distributors and/or Suppliers and for notification of the other party.**

Specify tresponsibilities, terms and conditions when the Billing Party provides billing inquiry resolution services to a Customer on behalf of the Non-Billing Party.

4. SUPPORTING DOCUMENTATION

a. Description of Request:

2009 Retail Annual Plan Item No. 4 a – Develop Model Business Practices and procedures for responding to Customer inquiries directed to Distributors and/or Suppliers and for notification of the other party.

b. Description of Recommendation:

The REQ/RGQ BPS found that a Billing Party may want to offer billing inquiry resolution services to the Non-Billing Party. To provide for this, a change is necessary to the Billing Services Agreement Outline in RXQ.6.4.

REQ/RGQ BPS Motion of Recommendation:
Add the provision for billing inquiry resolution services as shown and modified above to the Billing Services Agreement Outline and forward this recommendation to the REQ/RGQ Executive Committee for approval and to IR and TEIS for technical development as necessary.

Discussion on the Motion:
Motion made by Mr. Precht on the REQ/RGQ BPS Conference Call held on March 6, 2009.

Vote on the Motion:
The vote on the Motion was a consensus, simple majority vote with the following results: __6___ In Favor ___0__ Opposed __0__Abstained

Motion (Passed/Failed): ___Passed____

c. Business Purpose:

See Description in item b above, and Minutes listed below.

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

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**REQ/RGQ BPS**
Request No.:	**2009 Annual Plan Item No. 4.a – Part 1:**
Request Title:	**Develop Model Business Practices and procedures for responding to Customer inquiries directed to Distributors and/or Suppliers and for notification of the other party.**

The REQ/RGQ BPS discussed Model Business Practices for Customer Inquiries and the addition of the new provision for billing inquiry resolution services during the following conference calls:

January 23, 2009
March 6, 2009

The Minutes of all meetings and conference calls are posted on the NAEB REQ and RGQ Business Practices Subcommittees web pages.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2009 Retail Annual Plan Item No. 4.a – Part 2**
Request Title: **Customer Inquiries**

1. RECOMMENDED ACTION:

_X_ Accept as requested
___ Accept as modified below
___ Decline

EFFECT OF EC VOTE TO ACCEPT RECOMMENDED ACTION:
_X_ Change to Existing Practice
___ Status Quo

2. TYPE OF DEVELOPMENT/MAINTENANCE

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

3. RECOMMENDATION

SUMMARY:

The Joint Retail Electric and Retail Gas Quadrants' Business Practices Subcommittees submit this Recommendation for 2009 Retail Annual Plan Item No. 4 a – Customer Inquiries. This Item directed the devlopment of Model Business Practices and procedures for responding to Customer Inquiries directed to Distribution Companies and/or Supliers, and for the notification of the other party. Along with the resultant Model Business Practices, two Models / Process Flows are included in this Recommendation. These Model Business Prcatices do not address contractual obligations between Market Paerticipants and their Customers.

RECOMMENDED STANDARDS:

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2009 Retail Annual Plan Item No. 4.a – Part 2**
Request Title: **Customer Inquiries**

CUSTOMER INQUIRIES

Tab 1 -Executive Summary

This section presents a summary of the business practices for Customer Inquiries in competitive electric and natural gas markets where alternative energy providers, known as Suppliers, sell natural gas or electricity to end use Customers. The Supplier provides the energy by purchasing or producing it and arranges for its delivery by the Distribution Company to the retail Customer. These processes do not address contractual obligations between Market Participants and their Customers.

Customer Inquiry processing encompasses a variety of interactions among Market Participants. In a business environment where best practices are voluntary, model business practices should be applied within the context of regulatory requirements and agreements.

Tab 2 -Version Notes

(Insert initial publication date)

Tab 3 –Introduction

The North American Energy Standards Board (NAESB) is a voluntary non-profit organization comprised of members from all aspects of the natural gas and electric industries. Within NAESB, the Retail Electric Quadrant (REQ) and the Retail Gas Quadrant (RGQ) focus on issues impacting the retail sale of energy to end-use customers. REQ / RGQ Model Business Practices are intended to provide guidance to Distribution Companies, Suppliers, and other Market Participants involved in providing competitive energy service to end-use Customers. The focus of these Model Business Practices is the processing of Customer Inquiries.

These Model Business Practices are voluntary and do not address policy issues that are the subject of state legislation or regulatory decisions. These Model Business Practices have been adopted with the realization that as the industry evolves, additional and amended Model Business Practices may be necessary. Any industry participant seeking additional or amended Model Business Practices (including principles, definitions, data elements, process descriptions, and technical implementation instructions) should submit a request to the NAESB office, detailing the change, so that the appropriate process may take place to amend the Model Business Practice.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2009 Retail Annual Plan Item No. 4.a – Part 2**
Request Title: **Customer Inquiries**

Tab 4 -Business Processes and Practices

RXQ.12 Overview

RXQ.12.1 Principles

RXQ.12.1.1 Market Participants should ensure that processes are in place to resolve Customer Inquiries in a nondiscriminatory and efficient manner. These processes should strive to minimize the amount of time needed to respond to an inquiry and minimize the number of hand-offs experienced by the Customer.

RXQ.12.1.2 Market Participants should strive for consistent, fair, and favorable treatment of Customers regardless of which Market Participant is initially contacted.

RXQ.12.1.3 All Customers should have easy, no-cost access to Market Participant Customer service functions to address Customer Inquiries.

RXQ.12.1.4 The processes for Customer Inquiries should be consistent with the requirements set forth by the Applicable Regulatory Authority.

RXQ.12.1.5 The processes for Customer Inquiries should minimize the occurrence of unauthorized activity in the marketplace.

RXQ.12.1.6 A contract or agreement between or among Market Participants may establish different processes, timeframes, or operational requirements. Any conflict between these recommended processes and an applicable contract should be resolved according to the provisions of the contract.

RXQ.12.1.7 These processes do not address contractual obligations between Market Participants and their Customers.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2009 Retail Annual Plan Item No. 4.a – Part 2**
Request Title: **Customer Inquiries**

RXQ.12.2 Definitions

RXQ.12.2.A Business Definitions

RXQ.0.2.1 **Applicable Regulatory Authority:** The state regulatory agency or other local governing body that provides oversight, policy guidance, and direction to any parties involved in the process of providing energy to retail access Customers through regulations and orders.

RXQ.0.2.5 **Billing Party:** The party performing billing services for one or more parties.

RXQ.0.1.12 **Consolidated Billing:** The billing option in which the Distribution Company or Supplier renders a Customer bill consolidating the energy, transmission / transportation and distribution charges of the Distribution Company and the Supplier, for which a single payment from the Customer is expected.

RXQ.0.2.16 **Customer:** Any entity that takes gas and/or electric service for its own consumption.

RXQ.0.2.xx **Customer Inquiry**: A Customer question and/or complaint regarding issue(s) and process(es) within competitive energy markets and related customer requests for information received by Market Participants via all forms of Customer communication, including telephone conversations, facsimilies, electronic mail, U.S. Mail, and in person.

RXQ.0.2.17 **Distribution Company:** A regulated entity which provides distribution services and may provide energy and/or transmission / transportation services in a given area.

RXQ.0.2.95 **Drop:** The process of discontinuing responsibility for providing energy to a Customer from an existing Market Participant.

RXQ.0.2.96 **Drop Confirmation:** The Uniform Electronic Transaction used to notify the Market Participant that their Drop Request has been accepted.

RXQ.0.2.98 **Drop Rejection:** The Uniform Electronic Transaction used to notify the Market Participant that their Drop Request has been denied.

RXQ.0.2.99 **Drop Request:** The Uniform Electronic Transaction used to initiate a Drop.

RXQ.0.2.20 **Dual Billing:** The billing option in which the Distribution Company and Supplier render separate Customer bills for the products and services each provides.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2009 Retail Annual Plan Item No. 4.a – Part 2**
Request Title: **Customer Inquiries**

RXQ.0.2.100 **Enrollment:** The process of designating a Market Participant that has the responsibility for providing energy to a Customer.

RXQ.0.2.101 **Enrollment Confirmation:** The Uniform Electronic Transaction used to notify the Market Participant that their Enrollment Request has been accepted.

RXQ.0.2.103 **Enrollment Rejection:** The Uniform Electronic Transaction used to deny an Enrollment Request.

RXQ.0.2.104 **Enrollment Request:** The Uniform Electronic Transaction used to initiate an Enrollment.

RXQ.0.2.124 **ESI ID (Electronic Service Identifier):** A unique, intelligent alphanumeric identifier assigned by the Distribution Company for a single service deloivery point.

RXQ.0.2.22 **Governing Documents:** Documents that determine the interactions among parties, including but not limited to: regulatory documents (e.g., tariffs, rules, regulations), contractual agreements, and Distribution Company Operational Manuals.

RXQ.0.2.27 **Market Participant:** A party engaged in the process of providing competitive retail energy to end-use Customers including, but not limited to, the Distribution Company, the Supplier, the Registration Agent, the settlement agent, and the meter reading Entity.

RXQ.0.2.30 **Non-Billing Party:** The party whose charges are being combined into a statement (or invoice) prepared and rendered by another party.

RXQ.0.2.35 **Registration Agent:** An Entity other than the Distribution Company facilitating Customer reisgtration and performing record-keeping for a specified geographical area.

RXQ.0.2.39 **Supplier:** Persons engaged in the competitive sale of energy to end-users.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2009 Retail Annual Plan Item No. 4.a – Part 2**
Request Title: **Customer Inquiries**

RXQ.12.3 Model Business Practices

RXQ.12.3.1 General Practices for Customer Inquiries

RXQ.12.3.1.1 Any Market Participant may receive a Customer Inquiry.

RXQ.12.3.1.2 To minimize the number of contacts a Customer must initiate, the receiving Market Participant should answer generic questions regarding the competitive energy marketplace. Such generic questions may include, but are not limited to, how the competitive energy marketplace operates, and contact information for consumer advocates and Applicable Regulatory Authorities.

RXQ.12.3.1.3 The Market Participant receiving the Customer Inquiry should determine whether the Customer Inquiry is general in nature or related directly to the Customer account.

RXQ.12.3.1.4 If the Customer Inquiry is general in nature and the receiving Market Participant can resolve it, then the receiving Market Participant should respond to the Customer.

RXQ.12.3.1.5 If the Customer Inquiry is general in nature and the receiving Market Participant cannot resolve it, then the receiving Market Participant should take one of the following actions:

- Refer the Customer Inquiry and forward all relevant information to the appropriate Market Participant;
- Direct the Customer to contact the appropriate Market Participant, or;
- Contact the subject matter expert Market Participant to obtain the information to resolve the matter and call the Customer in a timely fashion to inform them of the resolution.

RXQ.12.3.1.6 Where the Customer Inquiry is directly related to the Customer's account, the following apply:

RXQ.12.3.1.6.1 The receiving Market Participant should obtain, at a minimum, the Customer's account number or ESI ID to confirm the account identity.

RXQ.12.3.1.6.2 If account identity confirmation has been made, the Market Participant should collect information to determine the nature of the Customer Inquiry, and based on this determination, decide which Market Participant is responsible for the Customer Inquiry.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2009 Retail Annual Plan Item No. 4.a – Part 2**
Request Title: **Customer Inquiries**

RXQ.12.3.1.6.3 If account identity confirmation cannot be made, the Market Participant should inform the Customer that they must provide certain Customer and/or premise-specific information prior to addressing their Customer Inquiry.

RXQ.12.3.1.6.4 If the Customer Inquiry is directly related to the Customer's account and the receiving Market Participant is responsible for resolving it, then the receiving Market Participant should respond to the Customer.

RXQ.12.3.1.6.5 If the receiving Market Participant is not responsible for resolving the Customer Inquiry, then the receiving Market Participant should take one of the following actions:

- Refer the Customer Inquiry and forward all relevant information to the appropriate Market Participant;
- Direct the Customer to contact the appropriate Market Participant, or;
- Contact the subject matter expert Market Participant to obtain the information to resolve the matter and call the Customer in a timely fashion to inform them of the resolution.

RXQ.12.3.1.7 Each Market Participant should have at least one designated postion responsible for coordinating the handling of Customer Inquiries with other Market Participants.

RXQ.12.3.1.8 Market Participants should agree on the method(s) to communicate with each other regarding Customer Inquiries and specify these methods in the Governing Documents. Methods may include, but are not limited to, the following:

- Emails;
- Facsimile;
- US mail, or;
- Telephone calls.

RXQ.12.3.1.9 When the Market Participant responds to the Customer to resolve a Customer Inquiry, the Market Participant should make the Customer aware of the dispute resolution procedures established by the Applicable Regulatory Authority and provide contact information.

RXQ.12.3.1.10 Any performance standards or timelines for resolving Customer Inquiries should be established by the Applicable Regulatory Authority.

RXQ.12.3.2 Customer Inquiries Regarding Enrollments and Drops

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2009 Retail Annual Plan Item No. 4.a – Part 2**
Request Title: **Customer Inquiries**

RXQ.12.3.2.1 Except in markets supporting the Registration Agent model, Customer Inquiries about the status of Enrollment should be answered by either the Supplier or Distribution Company based on the information each has on hand as a result of Enrollment Requests, Enrollment Confirmations, and Enrollment Rejections sent or received by either party.

RXQ.12.3.2.2 Except in markets supporting the Registration Agent model, Customer Inquiries about the status of Drop should be answered by either the Supplier or Distribution Company based on the information each has on hand as a result of Drop Requests, Drop Confirmations, and Drop Rejections sent or received by either party.

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RXQ.12.3.2.3 In markets supporting the Registration Agent model, Customer Inquiries about the status of Enrollment or Drop should be answered by the Supplier.

RXQ.12.3.3 Market Participant Responsibilities for Customer Inquiries Regarding Billing

RXQ.12.3.3.1 Except in markets supporting the Registration Agent model, the process should be as follows:

RXQ.12.3.3.1.1 The Distribution Company and Supplier are responsible for responding to Customer Inquiries regarding their own charges and/or bill messages, regardless of whether these items are presented to the Customer in a Consolidated Billing or Dual Billing format.

RXQ.12.3.3.1.2 The Customer should contact the appropriate party to resolve a Customer Inquiry related to specific charges or messages from either the Distribution Company or Supplier.

RXQ.12.3.3.2 In markets supporting the Registration Agent model, the process should be as follows:

RXQ.12.3.3.2.1 The Supplier is responsible for responding to Customer Inquiries regarding billing and bill messages.

RXQ.12.3.3.2.2 The Customer should contact the Supplier to resolve a Customer Inquiry related to billing charges or bill messages.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2009 Retail Annual Plan Item No. 4.a – Part 2**
Request Title: **Customer Inquiries**

RXQ.12.3.3.3 If the Customer contacts the wrong Market Participant to resolve a billling-related Customer Inquiry, the party receiving the Customer Inquiry should take one of the following actions:

- Forward the Customer Inquiry to the responsible Market Participant, or;
- Direct the Customer to contact the responsible Market Participant.

RXQ.12.3.3.4 A Customer requesting a change in Customer-specific information (e.g., Customer name, mailing address) should contact the Billing Party.

RXQ.12.3.3.5 If the Customer contacts the Non-Billing Party to initiate a Customer-specific information change, the Non-Billing Party should direct the Customer to contact the Billing Party.

RXQ.12.3.4 Customer Inquiries Regarding Emergencies

RXQ.12.3.4.1 Emergencies under this section include, but are not limited to, the following:

- Service interruption;
- Natural gas leak;
- Storm damage;
- Downed power line;
- Fire, or;
- Contractual force majeure event(s)

RXQ.12.3.4.2 Interaction procedures and division of responsibilities among Market Participants should not diminish emergency response when a Customer is participating in the competitive energy marketplace.

RXQ.12.3.4.3 The Governing Documents should specify the Market Participant a Customer should contact concerning an emergency situation.

RXQ.12.3.4.4 If the Customer contacts the wrong Market Participant concerning an emergency situation, that Market Participant should direct the Customer to contact the appropriate Market Participant.

RXQ.12.3.4.5 To minimize confusion during emergency situations, Customers should receive periodic reminders (e.g., bill messages, bill inserts, separate mailings, advertising media) of the Market Participant they should contact.

RXQ.12.3.5 Other Customer Inquiries

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2009 Retail Annual Plan Item No. 4.a – Part 2**
Request Title: **Customer Inquiries**

RXQ.12.3.5.1 Except in markets supporting the Registration Agent model, the process should be as follows:

RXQ.12.3.5.1.1 The appropriate methods for handling Customer Inquiries regarding special billing situations (e.g., payment arrangements, budget billing, tax exemption status change) should be specified in the Governing Documents.

RXQ.12.3.5.1.2 Customer Inquiries related to the amount of energy consumed should be directed to the Market Participant responsible for retaining Customer energy usage records.

RXQ.12.3.5.1.3 Customer Inquiries related to an incorrect meter reading should be directed to the Market Participant responsible for reading the meter.

RXQ.12.3.5.1.4 Customer Inquiries related to the accuracy of the meter should be directed to the Market Participant responsible for maintaining the meter.

RXQ.12.3.5.2. In markets supporting the Registration Agent model, all other Customer Inquiries should be directed to the Supplier.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters:	**Joint REQ/RGQ BPS**
Request No.:	**2009 Retail Annual Plan Item No. 4.a – Part 2**
Request Title:	**Customer Inquiries**

RXQ.12.4 Models

RXQ.12.4.1 General Practices for Customer Inquiries Process Flow

http://naesb.org/pdf4/retail_2009_api_4a_part2_rec_attach1.ppt

RXQ.12.4.2 Market Participant Responsibilities for Customer Inquiries Regarding Billing Except in Markets Supporting the Reguistration Agent Model – Process Flow

http://naesb.org/pdf4/retail_2009_api_4a_part2_rec_attach2.ppt

RXQ.12.4.3 Market Participant Responsibilities for Customer Inquiries Regarding Billing in Markets Supporting the Reguistration Agent Model – Process Flow

http://naesb.org/pdf4/retail_2009_api_4a_part2_rec_attach3.ppt

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Retail Electric and Retail Gas Quadrants

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2009 Retail Annual Plan Item No. 4.a – Part 2**
Request Title: **Customer Inquiries**

4. SUPPORTING DOCUMENTATION

a. Description of Request:

2009 Retail Annual Plan Item No. 4 a. – Customer Inquiries – Develop Model Business Practices and procedures for responding to Customer Inquiries directed to Distribution Companies and/or Suppliers, and for notification of the other party.

b. Description of Recommendation:

These Model Business Practices detail the process and procedures for responding to Customer Inquiries directed to Distribution Companies and/or Supliers, and for the notification of the other party. Along with the resultant Model Business Practices, two Models / Process Flows are included in this Recommendation. These Model Business Prcatices do not address contractual obligations between Market Paerticipants and their Customers.

c. Business Purpose:

See above

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

Customer Inquiries Model Business Practices and Process Flows (Models) were discussed by the Joint Retail Electric and Retail Gas Quadrant Business Practices Subcommittees at the following meetings and confence calls:

December 12, 2008	Conference Call
January 23, 2009	Conference Call
March 6, 2009	Conference Call
April 17, 2009	Conference Call

The Minutes of all meetings and conference calls are posted on the NAESB REQ and RGQ Business Practices Subcommittees' web pages.

On the April 17, 2009 conference call by a Vote of 6 In Favor and 0 Opposed, the Joint REQ/RGQ Business Practices Subcommittees voted to release the Customer Inquiries Model Business Practices and Models to the Joint REQ/RGQ Executive Committee for approval, and to the Joint REQ/RGQ Information Requirements Subcommittees and Joint REQ/RGQ Technical Electrionic Implementation Subcommittees for development of technical implemantation.

North American Energy Standards Board
1301 Fannin, Suite 2350, Houston, Texas 77002
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NAESB UPDATE: VERSION 1.1 -- RETAIL
MARCH 20, 2009

THE FINAL ACTIONS TO BE APPLIED TO RETAIL VERSION 1 TO CREATE RETAIL VERSION 1.1:

Version 1 was published on September 27, 2005.

2005:

- **Recommendation R04030:** Add a new data element to the Internet Electronic Transport (Internet ET) "refnum-orig": http://www.naesb.org/member_login_form.asp?doc=fa_req_rgq_r04030.doc - (*Ratified 9/26/05*).
- **Retail Gas Quadrant Annual Plan Item 6 and Retail Electric Quadrant Annual Plan Item 6:** Establish the Quadrant specific EDM (QEDM) standards for REQ and RGQ: http://www.naesb.org/member_login_form.asp?doc=fa_2005_req_rgq_ap6_r2qedm.doc - (*Ratified 9/26/05*).

2006:

- **Recommendation R05013:** Develop a model electric retail contract: http://www.naesb.org/member_login_form.asp?doc=fa_retail_r05013.pdf - (*Ratified 01/07/07*).

  Attachment 1: http://www.naesb.org/member_login_form.asp?doc=fa_retail_r05013a1.doc

  Attachment 2: http://www.naesb.org/member_login_form.asp?doc=fa_retail_r05013a2.doc
- **Retail 2006 Annual Plan Item 4(i):** Customer Enrollment model business practices: http://www.naesb.org/member_login_form.asp?doc=fa_2006_retail_ap4i.doc - (*Ratified 01/07/07*).

2007:

- **2005 Annual Plan Item 3:** "Customer Information: http://www.naesb.org/member_login_form.asp?doc=fa_2005_retail_ap3.doc - (*Ratified August 20, 2007).*
- **Recommendation for Retail 2007 Annual Plan Item 3a(ii)** - Customer Drop: http://www.naesb.org/member_login_form.asp?doc=fa_2007_retail_api3aii.doc - (*Ratified August 20, 2007*)
- **Recommendation for Retail 2007 Annual Plan Item 1(a)** – Additional Billing and Payment MBPs: http://www.naesb.org/member_login_form.asp?doc=fa_2007_retail_api1a.doc – *(Ratified August 20, 2007)*

  Attachment to Recommendation:
  http://www.naesb.org/member_login_form.asp?doc=fa_2007_retail_api1a_attachment.doc
- **Recommendation R05016** - Standards or model business practices for electronic retail billing transactions and bill payment transactions between customers, suppliers, and utilities: http://www.naesb.org/member_login_form.asp?doc=fa_r05016.doc - (*Ratified August 20. 2007*)

2008:

- **Recommendation for 2007 Retail Annual Plan Item 3a(iii)** - Account Information Change: http://www.naesb.org/doc_view2.asp?doc=retail_rat010808_2007_retail_ap3aiii_rec.doc – *(Ratified February 8, 2008)*
- **Recommendation for 2007 Retail Annual Plan Item 5** - Customer Information: http://www.naesb.org/doc_view2.asp?doc=retail_rat010808_2007_retail_ap5_rec.doc – *(Ratified February 8, 2008)*

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NAESB UPDATE: VERSION 1.1 -- RETAIL
MARCH 20, 2009

- **Recommendation for 2007 Retail Annual Plan Item 5** - Customer Information (Information Requirements and Technical Electronic Implementation Model Business Practices): http://www.naesb.org/doc_view2.asp?doc=retail_rat010808_2007_retail_ap5_ir_teis_rec.doc – *(Ratified February 8, 2008)*

- **R05016A Final Action** - Standards or model business practices for electronic retail billing transactions and bill payment transactions between customers, suppliers, and utilities: http://www.naesb.org/member_login_form.asp?doc=fa_r05016a.doc – *(Ratified June 22, 2008)*

- **2008 Retail Annual Plan Item 3(i), (ii), (iii) Final Action** - Customer Enrollment, Drop and Account Information Change Using a Registration Agent: http://www.naesb.org/member_login_form.asp?doc=fa_2008_retail_api_3_i_ii_iii.doc – *(Ratified June 22, 2008)*

  Attachment to Recommendation:
  http://www.naesb.org/member_login_form.asp?doc=fa_2008_retail_api_3_i_ii_iii_attach.ppt

- 2**007 WGQ Annual Plan Item 3/2007 Retail Annual Plan Item 9 Final Action** - Develop or amend WGQ technical standards, as appropriate, to address the DOE Sandia National Laboratories 2006 surety assessment findings and recommendations (WGQ)/Address issues raised in the Department of Energy's Sandia National Laboratories on NAESB technical standards and respond to the surety assessment finding and recommendations (REQ/RGQ): http://www.naesb.org/member_login_check.asp?doc=fa_2007_wgq_ap_3_2007_retail_ap_9.doc – *(Ratified July 11, 2008)*

- **2008 Retail Annual Plan Item 2a, Part 1 -** Customer Enrollment, Drop and Account Information Change including Using a Registration Agent (Technical X12 Implementation Guidelines): http://www.naesb.org/member_login_form.asp?doc=retail_rat021009_retail_2008_api2a_part1_rec.doc – *(Ratified March 13, 2009)*

- **2008 Retail Annual Plan Item 2a, Part 2 -** Customer Enrollment, Drop and Account Information Change including Using a Registration Agent (Data Dictionaries): http://www.naesb.org/member_login_form.asp?doc=retail_rat021009_retail_2008_api2a_part2_rec.doc – (R*atified March 13, 2009)*

- **2008 Retail Annual Plan Item 3(iv) and (v), Part 1** - ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Model Business Practices) and Attachment: http://www.naesb.org/member_login_form.asp?doc=retail_rat021009_retail_2008_api3iv_v_part1_rec_clean.doc – *(Ratified March 13, 2009)*

  Attachment to Recommendation:
  http://www.naesb.org/member_login_form.asp?doc=retail_rat021009_retail_2008_api3iv_v_part1_rec_attach.ppt

- **2008 Retail Annual Plan Item 3(iv) and (v), Part 2** - ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries): http://www.naesb.org/member_login_form.asp?doc=retail_rat021009_retail_2008_api3iv_v_part2_rec.doc - *(Ratified March 13, 2009)*

- **Recommendation 2009 Retail Annual Plan Item 1 / R05016 –** Develop Technical Electronic Implementation Standards and Data Dictionaries (Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions): http://www.naesb.org/pdf4/retail_2009_api1_r05016_rec.doc - ***(Out for Formal Comments – Due April 1, 2009)***

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NAESB UPDATE: VERSION 1.1 -- RETAIL
MARCH 20, 2009

- **R08015/2009 WGQ Annual Plan Item 2.b/2009 Retail Annual Plan Item 5** – Revise the Trading Partner Agreement TPA by removing the Exhibits from the agreement and relegate such information as contained in the Exhibits to operational worksheet(s): http://www.naesb.org/pdf4/r08015_rec.doc

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

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

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MINOR CORRECTIONS:

- **Request for Comment** on the following two minor corrections adopted by the REQ and RGQ EC on May 10, 2006:
  Minor Correction to NAESB Internet Electronic Transport Implementation Manual
  Minor Correction to Trading Partner Agreement

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

- **Request for Comment** on the following minor correction adopted by the REQ and RGQ EC's on November 5, 2008:
  Minor Corrections to be incorporated in NAESB Retail Gas Quadrant and Retail Electric Quadrant, Version 1, Model Business Practices
  Comments Due December 1, 2008

- **Request for Comment** on the following minor correction adopted by the REQ and RGQ EC's on February 4, 2009:
  Minor Corrections to be incorporated in NAESB Retail Gas Quadrant and Retail Electric Quadrant, Version 1, Model Business Practices
  Comments Due March 11, 2009
  Attachment to Minor Corrections - Models (Redline)
  Attachment to Minor Corrections - Models (Clean)

TIMELINE:

- Version 1.1 publication date was originally scheduled for yearend 2007, but has now been scheduled for 2nd quarter 2009 (refer to November Retail EC Minutes) to permit the registration model.

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NAESB UPDATE: VERSION 1.1 -- RETAIL
MARCH 20, 2009

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

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

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- **Retail Gas Quadrant Annual Plan Item 6 and Retail Electric Quadrant Annual Plan Item 6:** Establish the Quadrant specific EDM (QEDM) standards for REQ and RGQ: http://www.naesb.org/member_login_form.asp?doc=fa_2005_req_rgq_ap6_r2qedm.doc - (*Ratified 9/26/05*).

2006:

- **Recommendation R05013:** Develop a model electric retail contract: http://www.naesb.org/member_login_form.asp?doc=fa_retail_r05013.pdf - (*Ratified 01/07/07*).

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- **Retail 2006 Annual Plan Item 4(i):** Customer Enrollment model business practices: http://www.naesb.org/member_login_form.asp?doc=fa_2006_retail_ap4i.doc - (*Ratified 01/07/07*).

2007:

- **2005 Annual Plan Item 3:** "Customer Information: http://www.naesb.org/member_login_form.asp?doc=fa_2005_retail_ap3.doc - (*Ratified August 20, 2007).*
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- **Recommendation for Retail 2007 Annual Plan Item 1(a)** – Additional Billing and Payment MBPs: http://www.naesb.org/member_login_form.asp?doc=fa_2007_retail_api1a.doc – *(Ratified August 20, 2007)*

  Attachment to Recommendation:
  http://www.naesb.org/member_login_form.asp?doc=fa_2007_retail_api1a_attachment.doc
- **Recommendation R05016** - Standards or model business practices for electronic retail billing transactions and bill payment transactions between customers, suppliers, and utilities: http://www.naesb.org/member_login_form.asp?doc=fa_r05016.doc - (*Ratified August 20. 2007*)

2008:

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- **R05016A Final Action** - Standards or model business practices for electronic retail billing transactions and bill payment transactions between customers, suppliers, and utilities: http://www.naesb.org/member_login_form.asp?doc=fa_r05016a.doc – *(Ratified June 22, 2008)*

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- **2008 Retail Annual Plan Item 2a, Part 1 -** Customer Enrollment, Drop and Account Information Change including Using a Registration Agent (Technical X12 Implementation Guidelines): http://www.naesb.org/member_login_form.asp?doc=retail_rat021009_retail_2008_api2a_part1_rec.doc – *(Ratified March 13, 2009)*

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NAESB UPDATE: VERSION 1.1 -- RETAIL
MARCH 20, 2009

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

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

North American Energy Standards Board
1301 Fannin, Suite 2350, Houston, Texas 77002
Phone: (713) 356-0060, Fax: (713) 356-0067, E-mail: naesb@naesb.org
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April 21, 2009
Via email and posting

TO:	**NAESB Executive Committee (EC) Members, EC Alternates** **Submitters:** Kevin Gresh, Robert Walker, Louise Bradford, Mike Schisler, Amy Castronovo **Subcommittee Chairs for notification:** Valerie Crockett, Richard Smith, Kim Van Pelt, Steve Abbey (WGQ BPS), Marcie Otondo, J.T. Wood, Paul Sorenson (WEQ ESS), Leigh Spangler, Christopher Burden (WGQ EDM)
FROM:	NAESB Office
RE:	NAESB Triage Actions Taken for R08027 to R09007

Dear Triage Subcommittee and EC members,

Several requests were sent out for review and determination of disposition on April 9, R08027-R09007, all provided below as hyperlinks. Comments on Request R09004 were forwarded to the WGQ EC and incorporated into the disposition. There were no requests for conference call for discussion. The requests were triaged as follows:

For R08027– submitted by Kevin Gresh on behalf of PJM Interconnection, LLC:

> 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 modify WEQ 013-2.6.7.2 – RESALE Off-OASIS so that Off-OASIS resale transactions are posted directly to OASIS in ACCEPTED status, the request should be assigned to the WEQ Electronic Scheduling Subcommittee (ESS). 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 WEQ ESS.

For R08028 – submitted by Bill Griffith on behalf of El Paso Natural Gas Company

> 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 delete the electronic transaction WGQ Standard No. 5.4.4 (Replacement Capacity), the request should be assigned to the WGQ Business Practices Subcommittee (BPS). 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 WGQ BPS.

For R09001 – submitted by Paul Love on behalf of Natural Gas Pipeline Company of America

> 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 data elements to the Transactional Reporting Interruptible Transportation Document (WGQ Standard No. 5.4.22), the request should be assigned to the WGQ Business Practices Subcommittee (BPS). 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 WGQ BPS.
>
> The data elements to be added, "Negotiated Rate Indicator" and an "All Points Indicator," would clarify that either the interruptible contract is a negotiated rate contract as defined by FERC regulations or would clarify that the contract contains all nominatable receipt and delivery points.

For R09002 – submitted by Amy Castronovo on behalf of Enbridge 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 Appendices B and C of the QEDM manual to add to ActiveX control browser plug-ins Microsoft Reporting Services Client Print Control and Microsoft Silverlight, it should be assigned to WGQ Electronic Delivery Mechanisms Subcommittee (EDM). 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 WGQ EDM.

For R09003 – submitted by Robert Walker on behalf of Cargill Power Markets, LLC

> 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 modify the standards WEQ 001-4.1 to 4.18 for the online negotiation and confirmation process, the request should be assigned to the WEQ Electronic Scheduling Subcommittee (ESS). 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 WEQ ESS.

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For R09004 and attachment – submitted by Louise Bradford on behalf of Panhandle Energy Pipelines, with other submitters

> 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 NAESB WGQ Standard Nos. 4.3.23, 4.3.26, 4.3.32 and 4.3.33, and add one new WGQ Standard 4.3.xx to conform existing standards to the new eTariff standards, ratified by NAESB membership on April 4, 2008 and adopted in the Commission's Order No. 714, Electronic Tariff Filings, Final Rule, issued on September 19, 2008, it should be assigned to the WGQ Business Practices Subcommittee (BPS) followed by Electronic Delivery Mechanisms Subcommittee (EDM). To ensure placement in Version 1.9, the request should be assigned a high priority by both the WGQ BPS followed by the WGQ EDM subcommittees.

For R09005 and attachment – submitted by Mike Schisler on behalf of Natural Gas Pipeline Company of America

> 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 Appendix D of the QEDM manual to remove references to UDP 1604 for Secure ICA, it should be assigned to WGQ Electronic Delivery Mechanisms Subcommittee (EDM). 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 WGQ EDM.

For R09006 – submitted by Christopher Burden and 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 add of a new data element "Contract" to NAESB WGQ Standard No. 3.4.2 (Payment Remittance) and NAESB WGQ Standard No. 3.4.4 (Service Requester / Charge Allowance Invoice), the request should be assigned to the WGQ Business Practices Subcommittee (BPS). 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 WGQ BPS.

For R09007 – submitted by Christopher Burden and Dale Davis on behalf of Williams Gas Pipeline, with other submitters

> 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 Appendices B and C of the QEDM manual to delete Netscape as a supported browser and add Mozilla Firefox as a browser option, it should be assigned to WGQ Electronic Delivery Mechanisms Subcommittee (EDM). 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 WGQ EDM.

If you have any questions on a specific request, please contact the requestor directly -- their email addresses are provided above. The noted dispositions for the requests and the requests themselves were forwarded to the Triage Subcommittee and the EC members on April 9. There were no dissenting comments received. Comments were received on Request No. R09004 to extend the assignment to the WGQ BPS first and change the priority to high to ensure inclusion in the Version 1.9 publication. As such, the requests are considered in scope and assigned to the indicated subcommittees for development. Please note that this communication serves as notice to the subcommittee chairs of the subcommittees to which the requests are assigned.

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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 ANNUAL PLAN for the RETAIL GAS and ELECTRIC QUADRANTS
Adopted by the NAESB Board of Directors on March 26, 2009

	Item Number & Description[i]	Completion[ii]	Assignment[iii]
1.	Electronic Retail Billing.		
	Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions, (R05016 and Attachment, submitted by Wal-Mart/J.C. Penney) Status: Underway	2nd Q, 2009	TEIS
2.	Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 8: Customer Information Status: Underway	2nd Q, 2009	TEIS
3.	Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 10: Customer Enrollment, Drop and Account Information Change (Non Texas Model) Status: Underway	2nd Q, 2009	TEIS
4.	Customer Inquiries		
	a. Develop Model Business Practices and procedures for responding to customer inquiries directed to Distributors and/or Suppliers and for notification of the other party. Status: Underway	2nd Q, 2009	BPS
	b. Develop Technical Electronic Implementation Standards to support MBPs for customer inquiries directed to Distributors and/or Suppliers and for notification of the other party. Status: Not Started	3rd Q, 2009	IR/TEIS/Texas Task Force
5.	Develop NAESB Certification checklist criteria for Retail Quadrants to be used in the NAESB Certification Program. Status: Not Started. Dependent upon publication of Version 1.1 at a minimum, but more dependent upon completion of Customer Choice efforts.	4th Q, 2009	Ad Hoc EC Certification Group
6.	Review and develop needed model business practices for a standardized method for quantifying benefits, savings, cost avoidance and/or the reduction in energy demand and usage derived from the implementation of demand side management and energy efficiency programs. This effort will include demand side response, energy efficiency programs and metering, including the 'curtailment service provider' program. Status: Underway		Joint WEQ/REQ DSM Subcommittee
	a. Develop matrix and business practice standards for measurement and verification for demand response products and services in ISO/RTO footprint areas. Status: Completed (examples still to be provided)	4th Q, 2008	WEQ Section of the Joint WEQ/REQ DSM Subcommittee
	b. Develop more detailed technical standards for the measurement and verification of demand response products and services in ISO-RTO footprint areas. Status: Not Started (Scope to be initiated in 2nd Q, 2009, after which a completion date will be set)	Phase 2	WEQ Section of the Joint WEQ/REQ DSM Subcommittee

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	Item Number & Description[i]		Completion[ii]	Assignment[iii]
	c.	Develop preamble for business practice standards for measurement and verification for demand response and energy efficiency programs. Status: Underway	3rd Q, 2009	Joint WEQ/REQ DSM Subcommittee
	d.	Develop glossary for business practice standards Status: Underway	3rd Q, 2009	Joint WEQ/REQ DSM Subcommittee
	e.	Support retail development of matrix and model business practice standards for measurement and verification for demand response programs Status: Underway	2nd Q, 2009	Retail Section of the Joint WEQ/REQ DSM Subcommittee
	f.	Develop business practice standards to measure and verify energy reductions that are made to comply with a Renewable Portfolio Standard that included energy efficiency or a stand-alone Energy Efficiency Portfolio Standard. Status: Not Started (Scope to be initiated in 2nd Q, 2009, after which a completion date will be set)	Phase 2*	WEQ Section of the Joint WEQ/REQ DSM Subcommittee
	g.	Develop business practice standards to factor Demand Control and Energy Efficiency programs into reliability / supply decisions at the wholesale level for generation and transmission planning and operations. Status: Not Started (Scope to be initiated in 2nd Q, 2009, after which a completion date will be set)	Phase 2*	WEQ Section of the Joint WEQ/REQ DSM Subcommittee
	h.	Develop business practice standards to support cap and trade programs for green house gas. Status: Not Started (Scope to be initiated in 2nd Q, 2009 at the earliest. Upon conclusion of the scoping statement it will be determined whether NAESB standards development is appropriate)	Phase 2*	Joint WEQ/REQ DSM Subcommittee
7.	Revise the Trading Partner Agreement TPA by removing the Exhibits from the agreement and relegate such information as contained in the Exhibits to operational worksheet(s), (R08015). Status: Underway		2nd Q, 2009	Joint Retail/WGQ Contracts
8.	Billing and Payments			
	a.	Develop Process Flows to be included as models in book 3 – billing and payments Status: Underway	2nd Q, 2009	BPS
	b.	If the development of Process Flows indicate a gap in the model business practices, then develop new model business practices to address the gap. Status: Not Started	2nd Q, 2009	BPS

* These items may be moved to Provisional Activities

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	Item Number & Description[i]	Completion[ii]	Assignment[iii]
9.	Model Business Practices User Guide Add a new section to Book 0 to describe what Books have been developed, how the Books are laid out, and revised the title of the Book to reflect the additions Status: Not Started	3rd Q, 2009	BPS
10.	Additional Registration Agent Processes		
	a. Review all existing Model Business Practices to determine if the Service Request process is already covered, and if necessary develop any new Model Business Practices required Status: Not Started	4th Q, 2009	BPS
	b. Review all existing Model Business Practices to determine if the update Customer Information process is already covered, and if necessary develop any new Model Business Practices required Status: Not Started	4th Q, 2009	BPS
	c. Review all existing Model Business Practices to determine if the disconnection and reconnection process is already covered, and if necessary develop any new Model Business Practices required. Status: Not Started	4th Q, 2009	BPS
	d. Review all existing Model Business Practices to determine if the billing & payment process is already covered, and if necessary develop any new Model Business Practices required Status: Not Started	4th Q, 2009	BPS
11.	Supplier Certification Review Book 1 – Market Participant Interactions to determine if Supplier Certification is fully covered, and if necessary develop any new Model Business Practices required with the potential of moving all related Model Business Practices to a new Book Status: Not Started	4th Q, 2009	BPS
12.	Supplier Marketing Practices Develop Model Business Practices providing for a "Consumer Disclosure Statement" to be presented to residential and small commercial customers describing the Supplier's service offering and related contract provisions. This statement would also identify how certain Supplier-Customer interactions are conducted. Amongst the topics to be considered for inclusion on the statement would be the following: • the most important terms of the Supplier agreement, such as the contract's term and termination fee provisions; • training and identification of Supplier marketing representatives; • protocols for Supplier in-person and telephone contacts with customers; • added measures for protecting non-English speaking customers; and • Processes for handling customer complaints and resolving disputes arising from Supplier marketing activities. Status: Not Started	4th Q, 2009	BPS

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Item Number & Description[i]	Completion[ii]	Assignment[iii]
Program of Standards Maintenance & Fully Staffed Standards Work[iv]		
Business Practice Requests	Ongoing	Assigned by the EC
Information Requirements and Technical Mapping of Business Practices	Ongoing	Assigned by the EC
Ongoing Interpretations for Clarifying Language Ambiguities	Ongoing	Assigned by the EC
Ongoing Maintenance of Code Values and Other Technical Matters	Ongoing	Assigned by the EC
Ongoing Development and Maintenance of Definitions	Ongoing	Glossary

Provisional Activities

Joint Effort:

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

Modify TPA as necessary.

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

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

Retail Electric Quadrant Effort Only:

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

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

Retail Gas Quadrant Effort Only:

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

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

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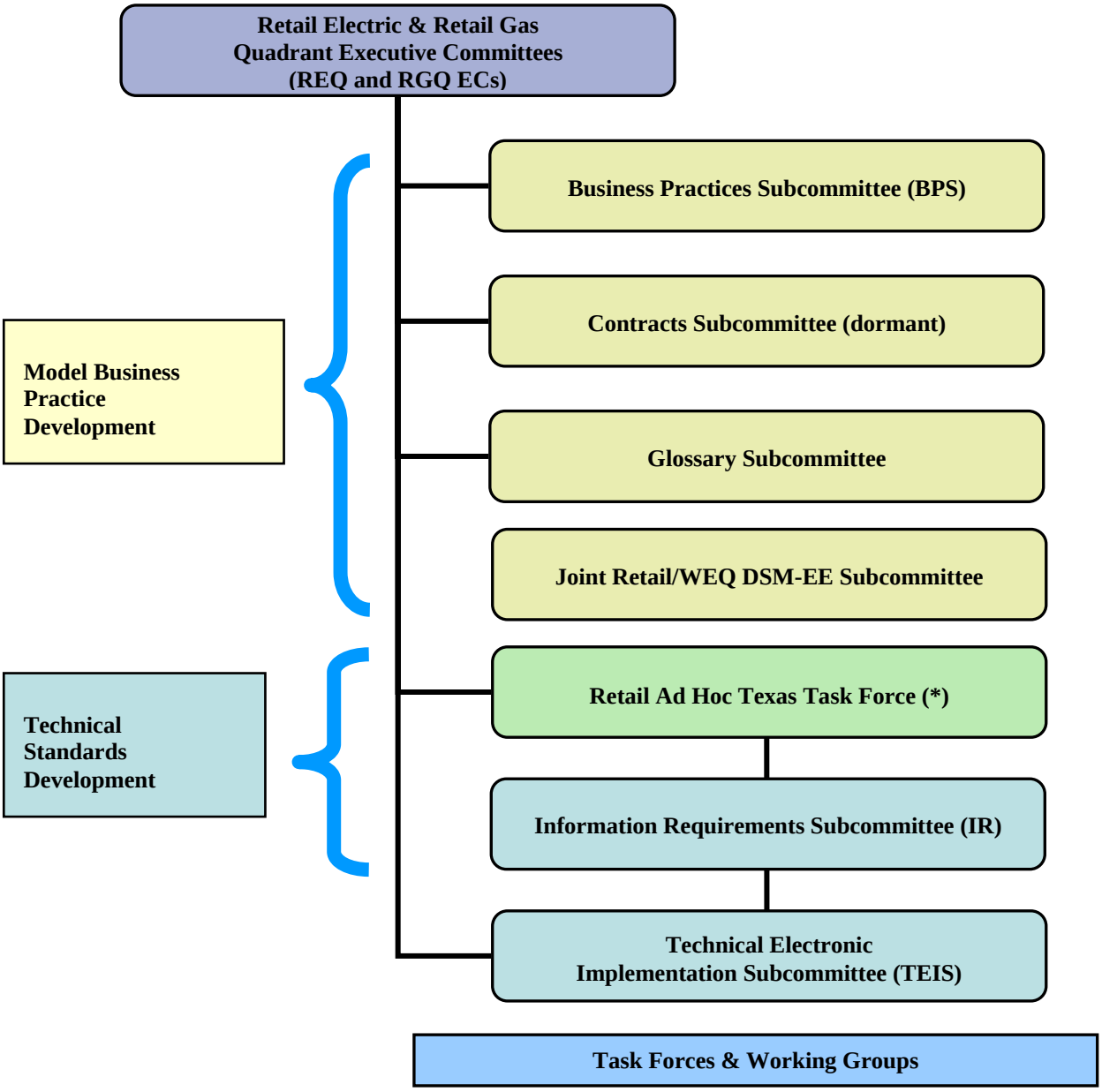

NAESB Retail Subcommittee Leadership: [v]

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

(*) The Retail Ad Hoc Texas Task Force may draft MBPs, process flows, implementation guides and technical standards supportive of the Registration Agent.

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Retail 2009 Annual Plan End Notes:

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

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

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

[iv] This work is considered routine maintenance and thus the items are not separately numbered. The REQ and RGQ ECs will assign maintenance efforts on a request-by-request basis.

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

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March 26, 2009

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

FROM: Cory Galik Cummings, Staff Attorney

RE: Draft Minutes of the NAESB Board Meeting – March 26, 2009

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

1. Administration and Welcome

Mr. Desselle welcomed the Board members and guests in the room and on the phone. Mr. Boswell read the antitrust guidelines. Ms. Cummings called the roll and quorum was established.

The Board members reviewed the draft agenda. Mr. Ellsworth moved to adopt the agenda and the motion was seconded by Mr. Fusco. The agenda was adopted as written. The Board members reviewed the draft minutes from the December 18, 2008 meeting. Mr. Gent moved to adopt the draft minutes and the motion was seconded by Mr. Templeton. The motion passed without objection.

2. Membership and Financial Report

Membership Report: Ms. McQuade reviewed the membership report. The membership profile reflects a 10 member loss since December, 2008. The majority of the resignations were due to companies with multiple memberships reducing their number of memberships. None of the resignations were due to the increase in dues. Ms. McQuade asked members to review the contact list for accuracy.

Financial Report for 2008 Year End: Ms. Wishart provided an account of the financial report and financial chart. While NAESB had planned for a profit of $390,000 there was a loss of $118,000 due to loss of members and increased expenses. Ms. Wishart was confident that the NAESB office will meet its estimated budget at the end of 2009 due to the increase of membership fees. Mr. Gent noted that the amount of negative retained earnings is decreasing. Ms. McQuade noted that NAESB maintained the projected financials reported in June, 2008 as they remained consistent in September and December, 2008. She anticipated a decrease in the negative retained earnings at the end of 2009 and a positive retained earning by the end of 2010.

3. Update from the 2-14-09 Advisory Council Meeting

Review of Advisory Council Meeting: Mr. Ellsworth provided an update on the Advisory Council meeting. At this year's meeting, Ms. McQuade presented a primer of NAESB history, activities and goals. He encouraged members to review this slideshow. A highlight of the meeting was a discussion on NAESB's roles and opportunities in regards to the new stimulus package.

Review of Communications with the U.S. Department of Energy: Mr. Desselle and Ms. McQuade worked with a small group of Board and Advisory Council members to discuss the options available to NAESB regarding the stimulus bill. A position paper was developed to send to the Department of Energy and letters were sent to the Department of Energy and the Federal Energy Regulatory Commission. Ms. McQuade noted that NAESB would be required to review the Wholesale Electric Quadrant (WEQ) body of standards to ensure consistency with any smart grid technology endorsed by the government. A question arose regarding the requirements NAESB would have to fulfill related to accepting grants. Any decision to accept grants should they be offered would be put to the full Board for review and decision. NAESB has accepted services from the DoE through the Sandia National Labs surety assessments of the technical standards and through the DoE development of white papers. Mr. Brown stated that the stimulus package offered a unique opportunity for the industry to obtain experts in the gas and electric markets to deliver products quickly to the market.

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4. Reports from Board Committees

Board Resources: Mr. Brown presented the Board Resources report. He noted a significant discrepancy between the number of new membership and the increase in resignations as companies find ways to cut costs. The loss of membership is not due to the increase in membership dues but rather companies reducing expenses. He also noted several new areas for potential membership including wind producers, solar producers and geothermal producers. He asked for Board volunteers to reach out to Smart Grid companies as that will be particularly important given FERC's policy statement on the Smart Grid and there appears to be a number of opportunities for NAESB standards development. Other areas for new membership opportunities include the recent NOPR from the FERC on Order No. 890 accepting a number of WEQ standards. Once the FERC approves those standards a press release will be released to inform the industry of NAESB's work. FERC's Smart Grid policy statement may also be used to attract new members. NAESB will also contact the participants from the DSM-EE work in an attempt to convert those active in the subcommittee into members.

Retail Restructuring Considerations: Mr. Minneman presented the Retail Restructuring report. The Retail Structure Review Committee (RSR) has met several times since the December Board meeting to address the questions that were raised at that Board meeting. The retail quadrants were formed to address retail and gas in competitive markets. The quadrants have completed the majority of the work envisioned.. The competitive markets did not develop as anticipated when the quadrants were formed. In looking at the direction the quadrants are currently taking, it was agreed that the current structure was not optimal to encourage membership. The RSR proposed the following changes; 1) revise the segment structure to better accommodate new areas of interest, such as energy efficiency and aggregation programs that are of interest to large retailers; 2) reduce the number of segments in each quadrant to three: Supplier/Service Providers, Utilities and End Users/Public Agencies Segment and; 3) reduce the required minimum number of members from forty to twenty. The first two changes can be made by the Retail Quadrants; the third change requires Board approval. The third quadrant (Utilities and End Users) was created in such a way as to encourage involvement of state public agencies as the role of those agencies and the retail industry is different than at the wholesale level. Ms. McQuade noted that the NAESB office has reached out to state commissions to join with NARUC support. Several states are considering it and supportive of state involvement. Mr. Ellsworth stated that with a topic of national interest, such as DSM-EE, there is an increase in interest in ensuring that the work is done correctly. He suggested that now may not be the best time to change the membership requirements but rather wait and see how this national influence impacts the quadrants. Mr. Boswell noted that the Board could extend the status quo of under-populated quadrants. This would require a Board resolution. Ms. McQuade said that if the Board agrees to a resolution to extend the retail quadrants without the minimum member requirement she would recommend that the RSR not disband but report back to the Board every quarter on their progress. Mr. Kruse expressed concern with a resolution that waived the membership requirement for two years. He noted that over the next six months to a year there should be enough interest in retail to increase membership. Mr. Kruse moved to allow a waiver of the minimum membership requirements for the Retail Quadrants for twelve months with quarterly reports from the SRS. Mr. Ellsworth seconded the motion. The motion unanimously passed a simple majority vote.

Managing Committee: Mr. Desselle provided the report of the Managing Committee. They met on January 23 to review NAESB salaries. At that meeting the committee also discussed NERC coordination. They met again this morning to review today's agenda. The Managing Committee discussed an item that was raised during yesterday's WEQ leadership meeting with respect to segment blocks. NAESB's current practice is to notify the FERC with respect to segment blocks. With the change made to the bylaws to prevent segment blocks by un-fully populated segments, NAESB will continue to notify FERC of those segment's actions as well so that if the segment would have blocked but for the lack of seated EC members, the FERC will still be notified of that segment's activities.

5. Updates on Specific Efforts

Wholesale Electric Quadrant: Ms. York provided the update for the WEQ. The NAESB office filed the WEQ Version 2.1 standards with the FERC on February 19, 2009. The filing covered standards that were developed or modified between last August and February of this year and included standards to support FERC Order Nos. 890, 890-A and 890-B, including standards for Capacity Benefit Margin and part one of a two-part modification to the

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NAESB standards regarding the grant of transmission rollover rights to requests for redirect on a firm basis. Part two of this standard is currently under development. The filing also included modifications to the Commercial Timing Table for Appendix D of the Coordinate Interchange standard, modifications to the TLR standards and appendices to provide more clarity and alignment with the NERC reliability standard. The filing also includes three minor corrections for the WEQ standards. The report on standards development covered only one failed standard related to Order 890 that addressed a request to formulate an ATC information list. This standard did not garner super-majority support of the WEQ Executive Committee. The remainder of the standards to address FERC Order No. 890 will be filed separately once the language for those standards is complete and will be submitted as WEQ Standards Version 2.2. That filing is expected in the first quarter of 2010.

The standards left to be addressed are related to Group 3 on Network Service on OASIS, Group 4 related to Pre-Emption and Rollover Rights, Group 5 related to Rebid of Partial Service, and Group 6 related to re-dispatch cost posting and other miscellaneous items. The subcommittee is working to get all of this work completed by end of year to support a first quarter 2010 filing.

Last week, FERC issued a NOPR on the NAESB 2.1 standards. They also released a NOPR on the NERC standards. These standards were all completed through the joint NERC/NAESB process. NERC had made a filing related to our Version 2.1 standards indicating that there may be one potential issue with the CBM standard. FERC indicated in the NOPR that they did not see an issue.

The subcommittee is also working on a variety of OASIS-related standards, in particular the transfer of the E-Tagging Specifications and the Transmission Service Information Network (TSIN) from NERC to NAESB. For E-Tagging, the subcommittee is working with NERC to coordinate the transfer and perform testing. The next version of E-Tagging will be identified as NAESB's document and titled the NAESB Electronic Tagging Functional Specification. Work is underway to determine and develop the appropriate business practice standards to support the transfer of TSIN. There is a draft confidentiality agreement currently posted for informal comment. The transition of the TSIN Registry will be known as the NAESB Electric Industry Registry (EIR). Currently, NERC and NAESB are working on a Request for Proposal (RFP) for a third party to manage and host the registry.

The Business Practice Subcommittee is continuing to work on a number of items, including changes to the standards related to Standards of Conduct, working in coordination with the NERC team on TLR issues as well as time error correction and inadvertent interchange payback, modifications to the gas/electric communication standards, among other items.

The Standards Review Subcommittee is continuing to work to review the release of NERC SARS to help NAESB stay coordinated with needed business practice standards to complement any reliability standards.

The WEQ is continuing to work diligently along with the Retail Quadrant on Demand-Side Management and Energy Efficiency Standards. This effort will continue to grow in importance as there is an increase in legislation and regulation focus in this area.

Wholesale Gas Quadrant: Mr. Buccigross provided the update for the WGQ. The FERC Order Nos. 698 and 717 implementation documents have been completed in the subcommittee and will be voted out at the May WGQ EC meeting. The fully staffed recommendations will go out for formal comment before the EC votes on them at the May EC meeting. They will be included in the Version 1.9 publication to be published in the 3rd quarter of 2009. In reference to Version 1.8, the pipelines are currently preparing for the tariff changes. The deadline for the tariff filings is July 1 with an actual implementation date of August 1, 2009.

WEQ and Retail DSM-EE efforts: Mr. True provided the update for the DSM-EE efforts. On February 10 the WEQ EC approved the Demand Response (DR) standards and on March 16 WEQ membership ratified the standards unanimously. The NAESB office will file these standards with the FERC shortly. Phase two of the standards development process for DR will add specificity and granularity to the approved standards. Mr. True suggested the creation of a separate subcommittee, not dependent on the completion of the efforts developing DR measurement and verification standards, to begin work on the Energy Efficiency standards, of which the Board was supportive.

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Mr. Desselle noted that with the filing of these standards with FERC, a press release will be sent out to inform the industry of NAESB's progress on these efforts.

Mr. Newcomb provided a review of the Retail DSM-EE efforts. The retail work group has been meeting every other Thursday to complete a draft recommendation for the measurement and verification of DR standards. The work group used the wholesale standards as a template and converted it into a workable retail recommendation. The group has reviewed the draft recommendation with dispatchable programs and once that work is complete they will review it with non-dispatchable programs. The goal is to determine the areas where greater granularity can be added. Definitions are being identified and more specific efforts to review the glossary terms will be made with the Retail Glossary subcommittee.

Mr. Kirby asked if the wholesale and retail work was being coordinated to ensure consistency. Mr. Newcomb said that the work groups are coordinated and share several members. The retail recommendation will state that if there is a retail DR product offered in the wholesale market, the WEQ standards will take precedence. Ms. McQuade also noted that in support of coordination, the retail recommendation will be voted on by the entire DSM-EE subcommittee which includes both wholesale and retail participants.

Retail Quadrants: Mr. Precht provided the update for the Retail Quadrants. The Business Practice Subcommittee (BPS) is mostly maintaining the retail standards but there is still one part of the competitive environment work that is still being addressed, customer inquiries. They have developed Model Business Practices for customer inquiries and hope to vote them out of the subcommittee in April. They are also working on the creation of flow diagrams for billing and payments in a competitive environment. The glossary subcommittee has been working in conjunction with the BPS.

6. Executive Committee Reports

The 2009 WGQ Annual Plan was reviewed. The following items changed; the status of item 3(a)(i) was changed to complete; 3(b) was changed to underway; and 4(a) and 4(b) were both changed to complete. The 2009 Retail Annual Plan was reviewed. Mr. Precht noted a supplemental work paper that was submitted in relation to AP item 6. There is concern on the part of gas distribution companies that the retail gas industry is not ready to address demand response and demand side management standards as they are not as fully developed as the electric industry. Mr. Desselle said it was noted that the DR standards would apply to the REQ only. The 2009 WEQ Annual Plan was reviewed. The following items changed; the expected completion date of 2(a)(ii)(3) changed to 2nd Quarter, 2009; the status of item 3(d) was changed to complete; Item 4(a) noted that examples were to be provided. 4(a) was left as a reference point and the notation for examples was moved to item 4(b). Under provisional items, the Board added development of NAESB business practices as needed to complement NERC reliability standards for FAC-012 and FAC-013. It was also noted that for Annual Plan item 4, a separate subcommittee would be created to address the EE standards.

Mr. Smead moved to adopt the changes to the Annual Plans and Mr. Kirby seconded the motion. The motion passed unanimously.

7. Plan for June 2009 Board Meeting

The next NAESB Board of Directors meeting will be held on Thursday, June 25, 2009 at the Marriott Houston Intercontinental Hotel from 9:00 am to 1:00 pm Central.

8. Old and New Business

Ms. McQuade noted that NAESB would be hosting a workshop on consensus building in Las Vegas, Nevada at the MGM Grand Hotel. Mr. Miles, from the FERC, would be presenting. Mr. Boswell and Mr. Buccigross would conduct a presentation on roles and responsibilities of NAESB EC and Board members.

An e-Tariff vendor fair will be held on Tuesday, April 28 from 1:00 pm to 5:00 pm Eastern at the Renaissance Hotel in Washington, DC. The vendor fair was being held in coordination with a FERC technology conference.

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9. Adjourn

Ms. Burnett moved to adjourn the meeting. The meeting adjourned at 11:30 pm Central.

10. Board Attendance and Voting Record (Vacancies Omitted)

			ATTENDANCE
WGQ PRODUCERS SEGMENT			
Richard D. Smith	Regulatory & Compliance Manager, Noble Energy Inc.		In Person
Bill Hebenstreit	Marketing Manager, Goodrich Petroleum Company LLC		In Person
Keith Sappenfield	Regional Director – US Regulatory Affairs, EnCana Oil & Gas (USA) Inc.		Phone
Marty Patterson	Vice President – Commercial Operations, Foothills Energy Ventures LLC		In Person
Pete Frost	Director - Regulatory Affairs, ConocoPhillips Gas and Power Marketing		Phone
WGQ PIPELINE SEGMENT			
Cathie Legge	Manager – Customer Service, Alliance Pipeline LP		In Person
Bill Grygar	Vice President, Panhandle Eastern Pipe Line		In Person
Susanna B. Barry	Vice President – Commercial Operations, Tennessee Gas Pipeline Company		
Anne Bomar	Vice President, Dominion		
Richard Kruse	Senior Vice President, Spectra Energy Transmission		In Person
WGQ LOCAL DISTRIBUTION COMPANY (LDC) SEGMENT			
Adrian Chapman	Vice President, Regulatory Affairs & Energy Acquisition, Washington Gas		
Carlos Thillet	Manager, Gas Supply & Transportation, PECO Energy Co.		In Person
Mike Novak	Asst. General Manager, National Fuel Gas Distribution Corporation		
Lee Stewart	Senior Vice President, Gas Transmission, Southern California Gas Company		Phone
WGQ END USERS SEGMENT			
Valerie Crockett	Senior Energy & Policy Specialist, Tennessee Valley Authority		In Person
Timothy W. Gerrish	Director of Origination-Energy Marketing and Trading, Florida Power & Light		
Tina Burnett	Natural Gas Resources Administrator, The Boeing Co.		In Person
Lori-Lynn C. Pennock	Senior Fuel Supply Analyst, Salt River Project		In Person
Jim Templeton	Principal, Comprehensive Energy Services		In Person
WGQ SERVICES SEGMENT			
Steve Abbey	Manager of Regulatory Affairs, Marketing Department, Anadarko		
Rusty Braziel	Managing Director, Bentek Energy, LLC		In Person
Jim Buccigross	Vice President Energy Industry Practice, 8760 Inc.		Phone
Lori Leeder	Relationship Manager/Business Development – Asset Optimization, Vega Energy Partners		In Person
REQ SUPPLIERS SEGMENT			
Robert K. Koger	President, North Carolina Advanced Energy Corporation		In Person
REQ DISTRIBUTORS SEGMENT			
David Koogler	Director – State Regulation, Dominion Virginia Power		In Person
Dennis Derricks	Director Regulatory Policy and Analysis, Wisconsin Public Service Corporation		Phone
Ruth Kiselewich	Director, Conservation Programs, Baltimore Gas & Electric Company		
Debbie McKeever	Market Advocate, Oncor		
REQ END USERS SEGMENT			
Sonny Popowsky	Consumer Advocate, Pennsylvania Office of Consumer Advocate		
REQ SERVICE PROVIDERS SEGMENT			
Jim Minneman	Controller, PPL Solutions LLC		Phone
David Pickles	Vice President, ICF International		
J Cade Burks	President, EC Power		In Person
WEQ TRANSMISSION SEGMENT		**SUB SEG:**	
Dan Klempel	Director Transmission Regulatory Compliance, Basin Electric Power	Muni/Coop	

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			ATTENDANCE
	Cooperative		
Chuck Feagans	Senior Manager, Reliability Policy, Tennessee Valley Authority	Fed/State/Prov.	Phone
John E. Lucas	Director - Transmission Policy and Services, Southern Company Transmission	IOU	Phone
Jill Horswell	Director Transmission, Southern California Edison	at large	In Person
Edward J. Davis	Policy Consultant, Entergy Services, Inc.	at large	In Person
Michelle Mizumori	Market Interface Manager, Western Electricity Coordinating Council (WECC)	At-Large	In Person
WEQ GENERATION SEGMENT			
Curtis Winterfeld	Vice President of Power Marketing, Deseret Generation & Transmission Cooperative	Muni/Coop	Phone
Belinda Thornton	General Manager - Energy Origination, Tennessee Valley Authority	Fed/State/Prov.	
Lou Oberski	Director – Electric Market Policy, Dominion Resources Services, Inc.	IOU	In Person
Charles W. Severance	Manager – Supply & Wholesale Services, Wisconsin Public Service Corporation	IOU	
Ron Mucci	Consultant, Representing Entegra Power Group LLC	Merchant	Phone
Gloria Godson	Vice President Energy Policy, Conectiv Energy Supply, Inc.	Merchant	
Shah Hossain	Senior Regulatory Specialist, Westar Energy, Inc.	at large	In Person
WEQ MARKETERS/BROKERS SEGMENT			
Roy True	Manager of Regulatory and Markets Development, ACES Power Marketing	Muni/Coop	In Person
Jeff Ackerman	Manager, Colorado River Storage Project Energy Management and Marketing Office, Western Area Power Administration	Fed/State/Prov.	
Jack Cashin	Senior Manager of Policy, Electric Power Supply Association (EPSA)	at large	
Sam Forrest	Vice President, Energy Marketing and Trading, Florida Power & Light	IOU	
R. Scott Brown	Vice President and Director, Exelon Generation Power Team	IOU	In Person
Rick Smead	Director, Navigant Consulting, Inc.	At-Large	In Person
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	In Person
Frank Johnson	Senior Vice President Electric Transmission and Distribution, Consumers Energy	IOU	
Thomas Burgess	Director – FERC Compliance, FirstEnergy Service Company	at large	Phone
Joe Hartsoe	Managing Director – Federal Policy, American Electric Power Service Corp.	at large	
Bruce Ellsworth	New York State Reliability Council	At-Large	In Person
WEQ END USERS SEGMENT			
Aaron Breidenbaugh	Senior Manager – Regulatory Affairs and Public Policy – New York, EnerNOC, Inc.		
Thomas G. Dvorsky	Director of the Office of Electricity, Gas, and Water at the New York State Department of Public Service	Regulator	
Michehl Gent	Open Access Technology International, Inc.	At-Large	In Person
WEQ INDEPENDENT GRID OPERATORS/PLANNERS			
Michael Desselle	Vice President Process Integrity, Southwest Power Pool		In Person
Kent Saathoff	Vice President of System Operations, ERCOT		In Person
Kevin Kirby	Vice President Market Operations, ISO New England, Inc.		In Person
Rana Mukerji	Vice President Market Structures, New York Independent System Operator, Inc. (NYISO)		
Andy Ott	Senior Vice President Marketing, PJM Interconnection		
Bill Phillips	Vice President Standards Compliance & Strategy, Midwest ISO (MISO)		In Person

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		ATTENDANCE
Don Tench	Director Planning & Assessments, Independent Electricity System Operator (IESO)	Phone
RGQ DISTRIBUTORS SEGMENT		
Alonzo Weaver	Vice President of Engineering and Operations, Memphis Light, Gas & Water Division (APGA)	
Ralph Cleveland	Senior Vice President – Engineering and Operations, AGL Resources, Inc.	In Person
SERVICE PROVIDERS SEGMENT		
Leigh Spangler	President, Latitude Technologies Inc.	In Person
Dave Darnell	President & CEO, Systrends USA	
Greg Lander	President, Capacity Center	

The subsegments noted in the above roster are:

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

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

End Use (also in another segment)

Federal/State/Provincial

IOU – Investor Owned Utility or IOU Affiliated

ITC – Independent Transmission Company

Large Industrials (not in other segments)

Merchant

Muni/Coop – Municipals, Cooperatives

Not IOU Affiliated

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

Regulator

Residential/Commercial

End Use (Self Generation)

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

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11. Other Attendance

Name	Organization	Attendance
Steve Abbey	Anadarko Energy Services Company	In person
Jonathan Booe	NAESB	In Person
Bill Boswell	NAESB	In Person
Jim Buccigross	8760 Inc.	Phone
Kathryn Burch	Spectra Energy Transmission	In Person
Christopher Burden	Williams Gas Pipeline	In Person
Ralph Cleveland	AGL Resources	In Person
Cory Cummings	NAESB	In Person
Deonne Cunningham	NAESB	In Person
Dale Davis	Williams Gas Pipeline	In Person
Michelle Foss	Bureau of Economic Geology, University of Texas	In Person
Mark Gracey	Tennessee Gas Pipeline	In Person
Bill Griffith	El Paso Natural Gas	In Person
Ryan Irwin	FERC	Phone
Iris King	Dominion	In Person
Bill Lohrman	FERC	Phone
Marcy McCain	Spectra Energy Transmission	In Person
Rae McQuade	NAESB	In Person
Joel Mickey	ERCOT	In Person
Susan Munson	ERCOT	In Person
Ripley Newcomb	Dominion	Phone
Phil Precht	BGE	Phone
Denise Rager	NAESB	In Person
Ed Skiba	Midwest ISO	In Person
Micki Schmitz	Northern Natural Gas	In Person
Julia Souder	NERC	In Person
Mack Thompson	American Municipal Power	In Person
Veronica Thomason	NAESB	In Person
Kim Van Pelt	Panhandle Eastern Pipeline	In Person
Jill Web	Preferred Legal Services	In Person
Darla Wishart	NAESB	In Person
Charles Yeung	SPP	In Person
Kathy York	Tennessee Valley Authority	In Person
Randy Young	Boardwalk Pipelines	Phone

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NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WGQ Annual Plan as Approved by the Board on March 26, 2009

Item Description	Completion[i]	Assignment[ii]
1. Damage Reporting for Natural Gas Pipeline Facilities		
Review and develop standards as appropriate to support posting of information as noted in Docket No. RM06-18-000, Order No. 682 and Docket No. RM06-18-001, Order No. 682-A. Review transmission line damage reporting to identify commonality and apply as appropriate. Status: Underway	2nd Q, 2009	Interpretations
2. Contracts Activities		
a. Update ISDA Gas Annex to correspond to the updated NAESB Base Contract for Sale and Purchase of Sale of Natural Gas, dated September 5, 2006. Status: Underway	1st Q, 2009	Contracts
b. Revise the Trading Partner Agreement TPA by removing the Exhibits from the agreement and relegate such information as contained in the Exhibits to operational worksheet(s), (R08015). Status: Underway	2nd Q, 2009	Joint Retail BPS/WGQ Contracts
3. Gas-Electric Interdependency		
Respond to directives of FERC Order No. 698 issued 6-25-07, Docket Nos. RM05-5-001 and RM96-1-027 as related to the NAESB reports submitted in Docket No. RM05-28-000:		
a. ¶ 56 of Order No. 698: "… Under the Commission regulations, the releasing shipper is responsible for clearly setting out the terms and conditions of the release and that would include the means for implementing the formula rate. This is also an issue on which NAESB can develop standards to ensure that such releases can be processed quickly and efficiently." (emphasis added)		
i.) Prepare fully staffed recommendation Status: Complete	2nd Q, 2009	BPS, IR/Technical
b. Provide for Enhanced Granularity for Public Utilities in Identifying Critical Operational Flow Orders. (R08020) Status: Underway	4th Q, 2009	BPS jointly with WEQ BPS
4. Promotion of a More Efficient Capacity Release Market		
Review FERC Order Nos. 712 and 712A and modify NAESB standards as appropriate (Docket Nos. RM08-1-000, RM08-1-001).		
a. Develop business practice standards as appropriate Status: Complete	2nd Q, 2009	BPS/Interpretations
b. Prepare fully staffed recommendation Status: Complete	2nd Q, 2009	BPS, Interpretations, IR and Technical

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NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WGQ Annual Plan as Approved by the Board on March 26, 2009

Item Description	Completion[i]	Assignment[ii]
5. Capacity Release EDI Review		
Review capacity release transactions upload and related responses to determine suitability for EDI		
a. Conduct Technical Investigation and prepare report for BPS consideration Status: Not Started (Dependent on conclusion of Item 4)	3rd Q, 2009	IR/Technical
b. Develop Business Practice Standards as appropriate Status: Not Started (Adjustments may be made to Completion Dates based on report from Item 5.a)	3rd Q, 2009	BPS
c. Prepare fully staffed recommendation Status: Not Started (Adjustments may be made to Completion Dates based on report from Item 5.a)	1st Q, 2010	BPS, IR/Technical
6. Customer Security Administration		
Review and develop standards as appropriate to support Customer Security Administration Standards (Comment Submittal, 10-29-07) Status: Not started (Scoping to take place 1st Q, 2009 after which a Completion Date will be set)	2009	BPS
7. Gas Quality Reporting		
a. Respond to directives of FERC Docket No. RP07-504-000: ¶ 10 "… develop a uniform set of standards regarding the posting of rapidly changing gas quality information applicable to those pipelines which are required by their tariffs to do so." (Docket No. RP07-504-000) Status: Complete	1st Q, 2009	BPS
b. Prepare fully staffed recommendation Status: Not started	2nd Q, 2009	IR/Technical
8. Standards of Conduct		
Review and develop standards, as appropriate, to support posting of standards of conduct information pursuant to Docket No. RM07-1-000, Order No. 717 Status: Complete	1st Q, 2009	BPS
9. Electronic Delivery Mechanisms		
Review minimum technical characteristics in Appendices B, C, and D of the WGQ QEDM Manual, and make changes as appropriate. Status: Complete	1st Q, 2009	EDM

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NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WGQ Annual Plan as Approved by the Board on March 26, 2009

Item Description	Completion[i]	Assignment[ii]
Program of Standards Maintenance & Fully Staffed Standards Work		
Business Practice Requests	Ongoing	Assigned by the EC[iii]
Continue review against plan for migration to ANSI ASC X12 new versions as needed and coordinate such activities with DISA.	Ongoing	ANSI X12 Subcommittee
Information Requirements and Technical Mapping of Business Practices	Ongoing	Assigned by the EC[4]
Interpretations for Clarifying Language Ambiguities	Ongoing	Assigned by the EC[4]
Maintenance of Code Values and Other Technical Matters	Ongoing	Assigned by the EC[4]
Provisional Activities		
Respond to requests as received that are related to Docket No. AD06-11-000 (Market Transparency Reporting).		

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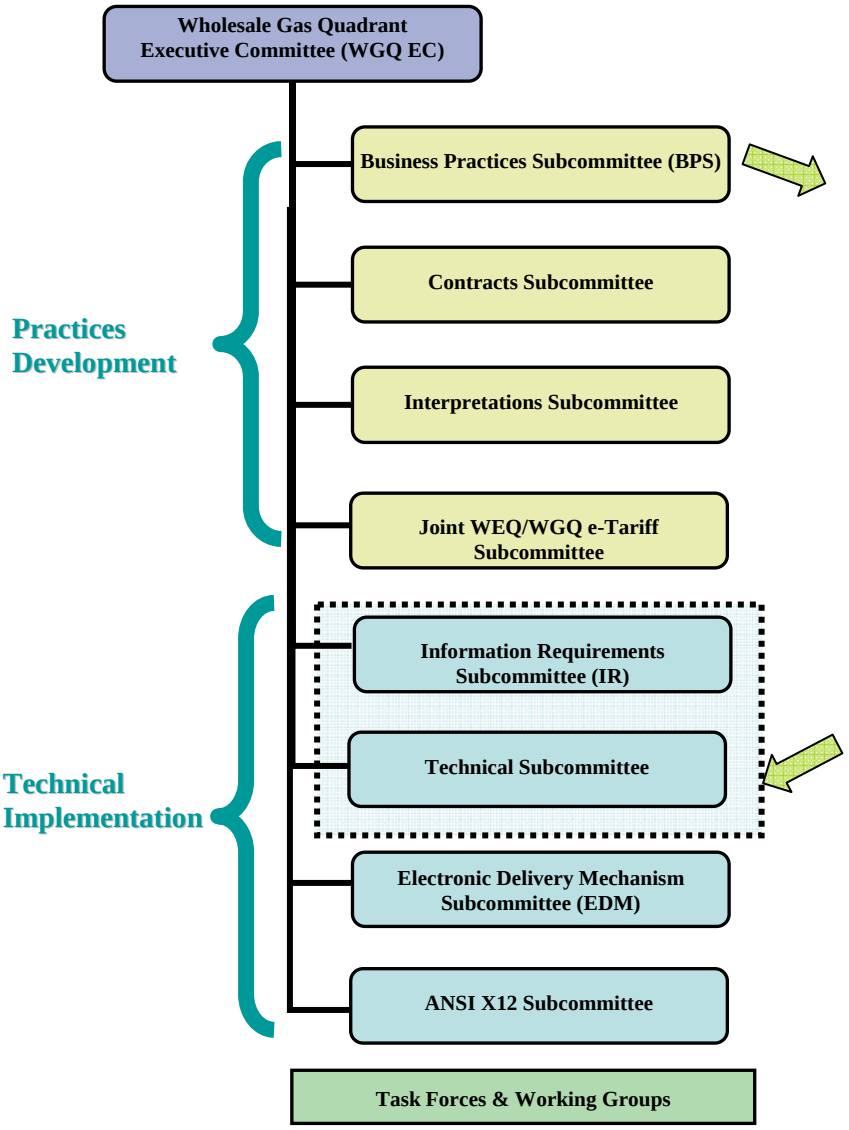

The translation of business practices to usable uniform business transactions is accomplished through the definition of information requirements for the data, and mapping of that data into specific electronic transactions. This translation is performed by IR and Technical subcommittees and completes the standards development process, often referred to as "full staffing." Both IR and Technical work in tandem to complete this crucial technical implementation activity. Until these steps have been completed, the process is incomplete, and in many cases, the business practices cannot be used.

NAESB 2009 WGQ EC and Subcommittee Leadership:

Executive Committee: Jim Buccigross, Chair and Mike Novak, Vice-Chair
Business Practices Subcommittee: Kim Van Pelt, Valerie Crockett, Steve Abbey and Richard Smith
Information Requirements Subcommittee: Dale Davis
Technical Subcommittee: Mike Stender, Kim Van Pelt
Contracts Subcommittee: Keith Sappenfield
Electronic Delivery Mechanism Subcommittee: Leigh Spangler, Christopher Burden
Interpretations Subcommittee: Paul Love
Joint WEQ/WGQ e-Tariff Subcommittee: Keith Sappenfield, Jane Daly

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End Notes WGQ 2009 Annual Plan:

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

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

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

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NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WEQ Annual Plan Approved by the Board of Directors on March 26, 2009

	Item Description	Completion[1]	Assignment[2]
1	**Develop business practices standards as needed to complement reliability standards**		
	Develop business practice standards to support and complement NERC reliability standards, NERC policies and NERC standards authorization requests (SARs) using the NERC/NAESB Coordination Joint Standards Development Process as appropriate. Current NAESB activities underway to develop business practice standards that are supportive of this annual plan item are:		
a)	Develop business practices to support Coordinate Interchange – R05020 "Include a guideline for rounding schedules with partial MWh's in the coordinate interchange business practice WEQ BPS-002-000" the rounding standard recommendation Status: Underway	3rd Q, 2009	JISWG
b)	Continuous support of TLR Procedure in alignment with NERC efforts on TLR Phase II and Phase III development.		
i)	Parallel Flow Visualization/Mitigation for Reliability Coordinators in the Eastern Interconnection. Note: Activity is dependent on NERC approval of SAR expected in 2nd Q, 2009. Upon approval of the SAR and NAESB action on this item, consideration should be given to provisional item 4. Status: Not Started	4th Q, 2009	BPS
ii)	Update WEQ-008 Appendix D to include the Market Flow Threshold Percentage recommended by NERC working group/task force Status: Not Started (dependent on successful field test - expected Oct. 2009) Upon receipt of recommendation, completion date may be adjusted.	4th Q, 2009	BPS
c)	Conduct analysis as to whether standards can be developed which outline a standardized process for the coordination and execution of emergency energy schedules. These would be complementary standards to EOP-002-2 Requirements R4 and R6 (SRS Analysis of EOP-002-2 R4 & R6) Status: Completed and as a result item (3)(a)(viii) has been added to the plan	1st Q, 2009	JISWG
d)	Time Error and Inadvertent (BAL-004 and BAL-006) Coordination with NERC Status: Not Started (Upon initiation of this item by NAESB. a completion date will be determined. The date of 2011 is based on a completion date provided in the NERC BAC project schedule which includes extensive field testing and diverse proposed TIMTF directions to be reconciled in subcommittee meetings.)	2011	TIMTF
e)	DCS and AGC (BAL-002 and BAL-005) Coordination with NERC Status Not Started (Upon initiation of this item by NAESB. a completion date will be determined. The date of 2011 is based on a completion date provided in the NERC BAC project schedule which includes extensive field testing and diverse proposed TIMTF directions to be reconciled in subcommittee meetings.)	2011	TIMTF

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NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WEQ Annual Plan Approved by the Board of Directors on March 26, 2009

	Item Description	Completion[1]	Assignment[2]
2	**Develop business practice standards in support of the FERC RM05-25-000 and RM05-17-000 (OATT Reform)**		
a)	Develop version 2 business practice standards to better coordinate the use of the transmission system among neighboring transmission providers. Such business practice standards would be based on recommendations from NERC's Long Term ATC/AFC Task Force and would involve revised procedures for the ATC calculation and/or revised protocols as determined by the final order.		
	Status: Underway		
	Development is using joint standards development process with NERC. Request R050004 was expanded to include the Order No. 890 (Docket Nos. RM05-25-000 and RM05-17-000) and Order No. 890-A (Docket Nos. RM05-17-001, 002 and RM05-25-001, 002), "Preventing Undue Discrimination and Preference in Transmission Services", issued April 11, 2007).		
i)	Group 3: Network Service On OASIS		
1.	Use of OASIS to Make Electronic Requests to Designate and Terminate Network Resource	3rd Q, 2009	ESS/ITS
	Status: Underway		
2.	Ability to Query Requests to Designate and Terminate Network Resources and Allow for Queries of All Information Provided with Designation Requests	3rd Q, 2009	ESS/ITS
	Status: Underway		
3.	Masking of Designated Network Resource Operating Restrictions and Generating Cost Information	3rd Q, 2009	ESS/ITS
	Status: Underway		
4.	Procedural Requirements for Submitting Designations over new OASIS Functionality	3rd Q, 2009	ESS/ITS
	Status: Underway		
5.	Specify How Designated Network Service Informational Postings are Posted on OASIS	3rd Q, 2009	ESS/ITS
	Status: Underway		
6.	Develop standards for the treatment of OASIS Requests when the Customer Fails to Provide the Necessary Attestation	3rd Q, 2009	ESS/ITS
	Status: Underway		
7.	Procedural Requirements for Submitting Both Temporary and Indefinite Terminations of Network Resources	3rd Q, 2009	ESS/ITS
	Status: Underway		
8.	Procedures for Submitting and Processing Requests for Concomitant Evaluations of Transmission Requests and Temporary Terminations	3rd Q, 2009	ESS/ITS
	Status: Underway		

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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 WEQ Annual Plan Approved by the Board of Directors on March 26, 2009

	Item Description	Completion[1]	Assignment[2]
ii)	Group 4: Pre-Emption; Request No. R05019; and Revisions to Standard 9.7		
1.	Pre-Emption Status: Not Started	4th Q, 2009	ESS/ITS
2.	Request No. R05019 Status: Not Started	4th Q, 2009	ESS/ITS
3.	Modify WEQ-001-9.7 Rollover Rights for Redirect on a Firm Basis Status: Underway	2nd Q, 2009	ESS/ITS
iii)	Group 5: Paragraph 1377		
1.	Paragraph 1377 Status: Not Started	4th Q, 2009	ESS/ITS
2.	Re-Bid Of Partial Service across Multiple Transmission Providers' Systems Status: Not Started	4th Q, 2009	ESS/ITS
iv)	Group 6: Miscellaneous (Paragraphs 1390 and 1627 of Order 890)		
1.	Paragraph 1390 of Order 890 Status: Not Started	4th Q, 2009	ESS/ITS
2.	Paragraphs 1627 of Order 890 Status: Not Started	4th Q, 2009	ESS/ITS
3.	Redispatch Cost Posting to allow for posting of third party offers of planning redispatch services. Status: Not Started	4th Q, 2009	ESS/ITS
b)	Develop the needed business practices as companion to the NERC standards for ATC related efforts		
i)	Develop standards to support existing Request No. R05004.		
1.	The processing of transmission service requests, which use TTC/ATC/AFC, in coordination with NERC changes to MOD 001 where the allocation of flowgate capability based on historical Network Native Load impacts the evaluation of transmission service requests, requiring the posting of those allocation values in conjunction with queries of service offerings on OASIS Status: Underway	3rd Q, 2009	ESS/ITS

North American Energy Standards Board
1301 Fannin, Suite 2350, Houston, Texas 77002
Phone: (713) 356-0060, Fax: (713) 356-0067, E-mail: naesb@naesb.org
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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 WEQ Annual Plan Approved by the Board of Directors on March 26, 2009

	Item Description	Completion[1]	Assignment[2]
3	**Develop business practices standards to improve the current operation of the wholesale electric market and develop and maintain business practice and communication standards for OASIS and Electronic Scheduling**		
a)	Develop and/or maintain business practice standards as needed for OASIS and electronic scheduling. Specific items to address include:		
i)	Network Services: Determine and develop needed business practice standards or other support is needed to support use of OASIS for Network Service transactions (R04006E). (Related to AP 2(a)(iii)) Status: Underway	3rd Q, 2009	ESS/ITS
ii)	Registry (TSIN): Determine and develop needed business practice standards to support the registry functions currently supported by NERC (R04037, R06027).		
1)	Work with the NAESB counsel to develop a confidentiality agreement, (R07013) Status: Underway	3rd Q, 2009	JISWG
2)	Transition the TSIN Registry from NERC to NAESB as the enhanced Electric Industry Registry (EIR), (R06027). Status: Underway	4th Q, 2009	NAESB/NERC Administration, JISWG
iii)	Document procedures used to implement the displacement/interruption terms of the Pro Forma tariff (R05019). Status: Not Started	4th Q, 2009	ESS/ITS
iv)	Make remaining incremental enhancements to OASIS as an outgrowth of the NAESB March 29, 2005 conference on the future of OASIS (R05026). Scoping statement completed by SRS and assignments made to BPS and ESS/ITS.		
1)	Eliminate Masking of TSR tag source and sink when requested status is denied, withdrawn refused, displaced, invalid, declined, annulled or retracted Status: Not Started	4th Q, 2009	ESS/ITS
2)	Initiate standard that eliminates the disparity of posting "sensitive" information. This standard should also include procedures of user certification that allows access to this class of information. Status: Underway (upon further development of this item by NAESB, a completion date will be determined)	2010	ESS/ITS
3)	Enhance the TSR result postings to allow showing of (i) limiting transmission elements and (ii) available generation dispatch options that would allow acceptance of reservation request. Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2010	ESS/ITS

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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 WEQ Annual Plan Approved by the Board of Directors on March 26, 2009

		Item Description	Completion[1]	Assignment[2]
	v)	Develop, coordinate inoperability testing, and implement e-Tag version 1.8.1 Status: Underway	4th Q, 2009	JISWG
	vi)	Transition e-Tag Specification and schema to NAESB Status: Complete Version 1.8.1 will be identified as the NAESB Electronic Tagging Functional Specification	1st Q, 2009	JISWG
	vii)	Review and correct the WEQ-004 Coordinate interchange Business Practice Standard as noted during the development of the e-Tag 1.8 development process. Status: Underway	3rd Q, 2009	JISWG
	viii)	Review and correct WEQ-004 Coordinate Interchange Business Practice Standard as needed based on activities in NERC Project 2008-12, Coordinate Interchange Standards Revisions and supporting EOP-002-2 R4 and R6. [note: this is a new item] Status: Not started – dependent on NERC activity (upon initiation of this item by NAESB, a completion date will be determined)	2010	JISWG
b)		Develop and/or maintain standard communication protocols and cyber-security business practices as needed.		
	i)	Develop PKI certification program for e-Tag and OASIS Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2009	Board Cert. Prgm Comm
	ii)	Develop PKI standards for OASIS. Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2009	ESS/ITS
	iii)	Develop Industry Implementation Plan for meeting PKI Standard requirements for e-tagging. Status: Underway eTagging items are linked to the transition of the Registry from NERC to NAESB.	July, 2009	JISWG
c)		Develop needed business practice standards for organization/company codes for NAESB standards – and address current issues on the use of DUNs numbers. Status: Underway (upon further development of this item by NAESB, a completion date will be determined) Common code usage is linked to the transition of the Registry from NERC to NAESB	2009	NAESB Staff with WEQ support
d)		Develop business practice standards in support of FERC Order No. 717 Status: Complete	1st Q, 2009	BPS

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NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WEQ Annual Plan Approved by the Board of Directors on March 26, 2009

	Item Description	Completion[1]	Assignment[2]
4	**Review and develop business practices standards to Demand Response, Demand Side Management and Energy Efficiency Programs** Review and develop needed model business practices for a standardized method for quantifying benefits, savings, cost avoidance and/or the reduction in energy demand and usage derived from the implementation of demand side management and energy efficiency programs. This effort will include demand side response, energy efficiency programs and metering, including the 'curtailment service provider' program.		
a)	Develop matrix and business practice standards for measurement and verification for demand response products and services in ISO/RTO footprint areas. Status: Completed	4th Q, 2008	WEQ Section of the Joint WEQ/REQ DSM Subcommittee
b)	Develop more detailed technical standards for the measurement and verification of demand response products and services in ISO-RTO footprint areas, including examples to be developed to support item 4(a) above. Status: Not Started (Scope to be initiated in 2nd Q, 2009, after which a completion date will be set)	Phase 2	WEQ Section of the Joint WEQ/REQ DSM Subcommittee
c)	Develop preamble for business practice standards for measurement and verification for demand response and energy efficiency programs. Status: Underway	3rd Q, 2009	Joint WEQ/REQ DSM-EE Subcommittee
d)	Develop glossary for business practice standards Status: Underway	3rd Q, 2009	Joint WEQ/REQ DSM-EE Subcommittee
e)	Support retail development of matrix and model business practice standards for measurement and verification for demand response programs Status: Underway	2nd Q, 2009	Retail Section of Joint WEQ/REQ DSM-EE Subcommittee
f)	Develop business practice standards to measure and verify energy reductions that are made to comply with a Renewable Portfolio Standard that included energy efficiency or a stand-alone Energy Efficiency Portfolio Standard. Status: Not Started (Scope to be initiated in 2nd Q, 2009, after which a completion date will be set)	Phase 2	WEQ Section/Joint WEQ/REQ DSM-EE Subcommittee

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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 WEQ Annual Plan Approved by the Board of Directors on March 26, 2009

	Item Description	Completion[1]	Assignment[2]
g)	Develop business practice standards to factor Demand Control and Energy Efficiency programs into reliability / supply decisions at the wholesale level for generation and transmission planning and operations in ISO/RTO footprint areas. Status: Not Started (Scope to be initiated in 2nd Q, 2009, after which a completion date will be set)	Phase 2	WEQ Section/Joint WEQ/REQ DSM-EE Subcommittee
h)	Develop business practice standards for cap and trade programs for green house gas Status: Not Started (Scope to be initiated in 2nd Q, 2009 at the earliest. Upon conclusion of the scoping statement it will be determined whether NAESB standards development is appropriate)	Phase 2	Joint WEQ/REQ DSM-EE Subcommittee
6	**Maintain existing body of Version 2 standards**		
a)	Make consistency changes to Version 1.0 standards as directed by the WEQ Leadership Committee on December 12, 2007 (R08001 – BPS, ESS/ITS, R08002 - ESS/ITS, R08003 - ESS/ITS - BPS, R08004, R08005 - ESS/ITS)		
1)	OASIS Consistency Changes (R08001, R08002, R08003, R08005) Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2009	ESS/ITS
2)	Gas / Electric Communication Consistency Changes (R08004) Status: Underway	2nd Q, 2009	BPS
b)	Modify NAESB definitions to address internal inconsistencies and inconsistencies with the NERC glossary. Revise existing NAESB glossary/definition of terms to be applicable to entire set of WEQ Business Practices. (http://www.naesb.org/pdf3/weq_ec051308w3.doc) Status: Underway Subcommittee co-chairs are developing WEQ-000 Definition of Terms/Acronyms to replace definitions being included in each NAESB Business Practice.	2nd Q, 2009	BPS/ESS/ITS/SRS Co-chairs
c)	Develop standards to allow for registered Market Operators to request changes to the Market Level profile of Implemented Interchange (R06006) Status: Complete	1st Q, 2009	JISWG
d)	Consistent with ¶51 of FERC Order No. 890-A, add AFC and TFC values to the "System_Attribute" data element of the NAESB Standard WEQ-003: OASIS S&CP Data Dictionaries. (R08011) Status: Not Started This Standards Request was assigned to the ESS/ITS in May 2008.	3rd Q, 2009	ESS/ITS
e)	Provide for Enhanced Granularity for Public Utilities in Identifying Critical Operational Flow Orders. (R08020) Status: Not Started. This Standards Request was assigned to the BPS in August 2008 (upon initiation of this item by NAESB, a completion date will be determined)	2009	BPS jointly with WGQ BPS

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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 WEQ Annual Plan Approved by the Board of Directors on March 26, 2009

	Item Description	Completion[1]	Assignment[2]
f)	Synchronize Bidding Credit Requirements for FTR, TCC and CRR (R08025) Posting of collateral is an important issue for financial marketers. Most financial marketers and smaller entities are required to post cash for FTR transactions, while most utilities post unsecured credit. Therefore, the timing for posting collateral is especially crucial to financial marketers. There are two posting periods for FTRs: 1. The Bidding Requirement: Credit must be posted with FTR bids and these monies are held until bids are cleared. 2. The Holding Requirement: After bids are cleared and FTRs awarded, collateral is required for the amount of time the FTR is active. Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2009	SRS (Scoping)

NORTH AMERICAN ENERGY STANDARDS BOARD
2009 WEQ Annual Plan Approved by the WEQ EC on February 3, 2009

PROVISIONAL ITEMS

1	Develop and or modify business practices related to support of NERC effort on the NERC Resources and Transmission Adequacy (Project 2009-05 Resource Adequacy Assessment).
2	Develop business practices for allocating capacity among requests received during a submittal window Order 890-A (Docket Nos. RM05-17-001, 002 and RM05-25-001, 002 - Paragraph 805).
3	Determine any needed NAESB action in support of the Interchange Distribution Calculator (IDC) and develop any necessary standards.
4	Prepare recommendations for future path for TLR (equity concerns) in concert with NERC, which may include alternative congestion management procedures[3]. Work on this activity is dependent on completing 2009 WEQ Annual Plan 1.c.i (Parallel Flow Visualization/Mitigation for Reliability Coordinators in the Eastern Interconnection).
5	Develop complementary standards that align with NERC Project 2008-01 Voltage and Reactive Control, for which a white paper is expected after the 2009 SAR is processed.
6	Develop NAESB business practices as needed to complement NERC reliability standards for FAC-012 and FAC-013.
7	Determine NAESB action needed to support FERC Action Plan for Smart Grid Technology.

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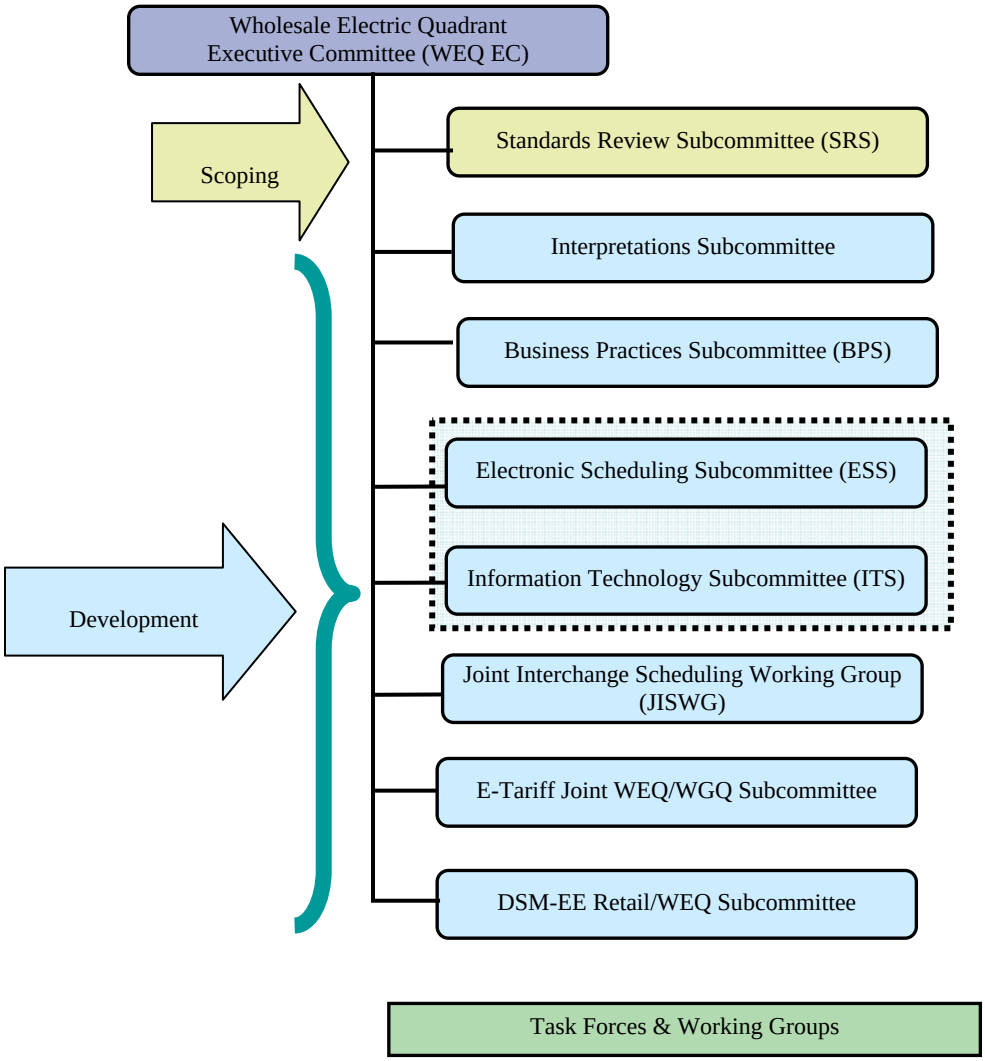

NAESB WEQ EC and Subcommittee Leadership:
Executive Committee: Kathy York (WEQ EC Chair) and Matthew Goldberg (WEQ EC Vice Chair)
Standards Review Subcommittee: Narinder Saini, Ed Skiba
Interpretations Subcommittee: Robert Schwermann
Business Practices Subcommittee & Task Forces: Jim Busbin (TLR), Ed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

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End Notes WEQ 2009 Annual Plan:

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

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

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

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Current Quadrant Membership – Proposed Segment Structure Modifications

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

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

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SCENARIO 1

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

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

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

END USERS/PUBLIC AGENCIES SEGMENT
VACANT

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

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

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END USERS/PUBLIC AGENCIES SEGMENT
VACANT

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

SUPPLIERS/SERVICE PROVIDERS SEGMENT		**TERM END:**
Robert K. Koger	President, North Carolina Advanced Energy Corporation	12-31-2009
Jim Minneman	Controller, PPL Solutions LLC	12-31-2009
David Pickles	Vice President, ICF International	12-31-2009
J Cade Burks	President, EC Power	12-31-2010
UTILITIES SEGMENT		
David Koogler	Director – State Regulation, Dominion Virginia Power	12-31-2009
Dennis Derricks	Director Regulatory Policy and Analysis, Wisconsin Public Service Corporation	12-31-2009
Ruth Kiselewich	Director, Demand Side Management Programs, Baltimore Gas & Electric Company	12-31-2010
Debbie McKeever	Market Advocate, Oncor	12-31-2010
END USERS/PUBLIC AGENCIES SEGMENT		
Sonny Popowsky	Consumer Advocate, Pennsylvania Office of Consumer Advocate	12-31-2009

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

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

END USERS/PUBLIC AGENCIES SEGMENT
VACANT

NORTH AMERICAN ENERGY STANDARDS BOARD
1301 Fannin, Suite 2350 • Houston, Texas 77002 • **Phone:** (713) 356-0060 • **Fax:** (713) 356-0067
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April 17, 2009

Filed Electronically

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

RE: Submittal for "Measurement and Verification of Demand Response Products" (Docket No. RM05-5-000)

Dear Ms. Bose:

The North American Energy Standards Board ("NAESB") submits this report to the Federal Energy Regulatory Commission ("FERC" or "Commission") regarding the measurement and verification of demand response products and services administered in wholesale electricity markets. . This NAESB report is voluntarily submitted by NAESB in response to Docket Nos. RM05-5-000. The NAESB standards related to the measurement and verification of demand response products and services were ratified by NAESB membership on March 16, 2009 and became available as final actions. We very much appreciate the time, knowledge and industry leadership provided by all participants, both members and non-members and look forward to the further development of demand side management and energy efficiency business practice standards.

The report is being filed electronically in Adobe Acrobat® Print Document Format (.pdf). All of the documents are 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 DSM-EE standards or any other NAESB work products.

Respectfully submitted,

Rae McQuade

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

NORTH AMERICAN ENERGY STANDARDS BOARD
1301 Fannin, Suite 2350 • Houston, Texas 77002 • **Phone:** (713) 356-0060 • **Fax:** (713) 356-0067
email: naesb@naesb.org • **Web Site Address:** www.naesb.org

cc with enclosures:

Chairman Jon Wellinghoff, Federal Energy Regulatory Commission
Commissioner Suedeen Kelly, Federal Energy Regulatory Commission
Commissioner Philip D. Moeller, Federal Energy Regulatory Commission
Commissioner Marc Spitzer, Federal Energy Regulatory Commission

Mr. Shelton Cannon, Director of Energy Market Regulations, Federal Energy Regulatory Commission
Ms. Cynthia Marlette, General Counsel of the Commission, Federal Energy Regulatory Commission
Mr. Joseph McClelland, Director, Office of Electric Reliability, Federal Energy Regulatory Commission

Mr. W. Mason Emnett, Office of General Counsel - Energy Markets, Federal Energy Regulatory Commission
Mr. Michael Goldenberg, Senior Attorney, Office of General Counsel, Federal Energy Regulatory Commission
Mr. Ryan Irwin, Office of Energy Market Regulation, Federal Energy Regulatory Commission
Mr. David Kathan, Office of Energy Market Regulation, Federal Energy Regulatory Commission
Mr. William Lohrman, Office of Energy Market Regulation, Federal Energy Regulatory Commission
Ms. Valerie Roth, Office of Energy Market Regulation, 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. David Cook, General Counsel, North American Electric Reliability Corporation

Enclosures (all documents noted in the appendices are available publicly on the NAESB web site – www.naesb.org):

Appendix A	DSM-EE Distribution List
Appendix B	WEQ/Retail DSM-EE Subcommittee Meeting Minutes Links
Appendix C	Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts
Appendix D	Ratification Ballots and Results Links
Appendix E	2008 Wholesale Electric Quadrant Annual Plan
Appendix F	2009 Wholesale Electric Quadrant Annual Plan
Appendix G	NAESB Process for Standards Development

UNITED STATES OF AMERICA
FEDERAL ENERGY REGULATORY COMMISSION

Standards for Business Practice and Communication Protocols for Public Utilities	)))	**Docket No. RM05-5-000**

REPORT OF THE NORTH AMERICAN ENERGY STANDARDS BOARD

The North American Energy Standards Board ("NAESB") is voluntarily submitting this report in accordance with the Commission's Orders in the above referenced dockets.

The NAESB Demand Side Management – Energy Efficiency ("DSM-EE") subcommittee meetings and Wholesale Electric Quadrant ("WEQ") Executive Committee ("EC") meetings where these standards[1] were drafted, discussed and adopted took place from July 2007 to December 2008. There were nine subcommittee meetings and various working group meetings, focused solely on DSM-EE issues and specifically in this first phase, on the measurement and verification aspects of demand response products and services. There were ten WEQ EC meetings where the Demand Side Management ("DSM") standards development effort was discussed as one of the agenda topics. All meetings were open to all interested parties and were publicly noticed, and were available by phone and web cast for those unable to travel. The meetings were held in various locations, diverse geographically. Any interested party was encouraged to submit comments if their schedules would not permit them to participate either in person or over the phone/web cast. The minutes of these meetings are provided as links in Appendices B and C, which include the voting record of the WEQ EC, and include all comments filed as part of the formal comment period for the proposed DSM standards. Appendix A includes the DSM-EE distribution list sorted by organization and participant name. The ratification ballots and member ratification voting record results are also included as links in Appendix D. The 2008 and 2009 WEQ Annual Plans are contained in Appendices E and F, respectively. An abbreviated review of the NAESB process by which the standards were drafted, considered and adopted is provided in Appendix G. More detailed process descriptions can be accessed from the NAESB web site.

During the development of the DSM-EE request, the group understood that the standards would reflect the efforts of multiple quadrants and market interests. In review of the DSM-EE scope, the group agreed to focus initially on demand response products and services[2] and the measurement and verification aspects of such. The wholesale and retail electric and retail gas market interests participated in the development of the standards – including many participants who do not hold membership in NAESB. NAESB coordinated its work efforts with the North American Electric Reliability Corporation ("NERC"), as NERC had undertaken a similar development activity. During the development, it was determined that the retail gas participation was more of a role of monitoring,[3] and that the standards to be developed were solely wholesale electric and retail electric quadrant work products. All interested parties regardless of membership in NAESB were encouraged to participate, as they are in all NAESB meetings, to provide the broadest possible input from the industry, as work products are prepared. Appendix A

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[1] NAESB WEQ Annual Plan 5(a) Final Action: Review and develop business practice standards to support DR and DSM-EE programs, Ratified March 16, 2009, *available at* http://www.naesb.org/member_login_form.asp?doc=fa_weq_2008_api5a.doc

[2] NAESB DSM-EE subcommittee Meeting Minutes, *available at* http://www.naesb.org/pdf2/dsmee041107fm.doc, (April 11, 2007).

[3] NAESB Board of Directors Meeting Minutes, *available at* http://www.naesb.org/pdf4/bd032609dm.doc, (March 26, 2009).

provides the distribution list for DSM-EE materials, and all meeting materials are posted on the web site[4] for any interested party to access.

On December 2, 2008, the DSM-EE subcommittee voted out its recommendation with significant support from all segments of the wholesale electric quadrant.[5, 6] The recommendation was sent out for a thirty-day industry comment on December 4, 2008 and twelve comments were received.[7] The comments were considered by the WEQ EC on January 27, 2009[8] and the DSM-EE subcommittee chairs provided a review that gave additional context to the standards. During the WEQ EC discussion it was noted that more technical standards would be needed to support the standards provided in the recommendation. All WEQ EC members agreed to have a follow-up development effort to provide additional technical context to the standards. The WEQ EC voted on January 27, 2009 with notational ballots due on February 10, 2009 for absent EC members, to approve the recommendation, passing the EC with the needed super-majority threshold of 67% and a minimum of 40% affirmative votes from each segment, receiving 70.7% overall including meeting the segment threshold. No negative votes were received, (abstentions counted for the less than 100% affirmative vote reported). The recommendation was then ratified by the WEQ members on March 16, 2009[9] after a thirty-day ratification period, garnering 100%, clearly exceeding the super-majority threshold of 67%.

The WEQ demand response standards[10] include forty definitions and thirty-one business practice standards. They address the measurement and verification characteristics of demand response products and services administered for application in the wholesale electricity market. They are intended to provide a common framework for transparency (accessible and understandable measurement and verification requirements for demand response products and services), accountability (criteria that will enable the system operator to accurately measure the performance of demand response resources), and consistency (standards applicable across all wholesale electricity markets). The standards address 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.. The standards are now considered a final action[11] and are accessible as a final action from the NAESB web site. They will be included in our next publication, WEQ Version 2.2, currently slated for first quarter 2010.

As a follow-up, the DSM-EE subcommittee has begun efforts to scope the development of more detailed technical standards for the measurement and verification of demand response products and services in ISO-RTO footprint areas. A new wholesale electric work group will meet on April 16, 2009 to begin the scoping effort for the more technical standards development. WEQ/Retail DSM-EE subcommittee meetings have been scheduled for May 29, July 29 and September 29, during which the products of the retail task force and new wholesale task force will be reviewed, possibly modified and approved. The retail efforts are proceeding and the retail task force is using the wholesale standards as a foundation for their work products. It is expected that NAESB would have retail electric work products supportive of the wholesale work products by second quarter 2009.

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[4] NAESB WEQ DSM-EE webpage, available at http://www.naesb.org/dsm-ee.asp

[5] NAESB DSM-EE Subcommittee Meeting Minutes, *available at* http://www.naesb.org/pdf4/dsmee120208dm.doc, December 2, 2008, (Motion to adopt the recommendation made by John Hughes of Electricity Consumers Resource Council and seconded by Eric Winkler of ISO New England, both of whom voted in support of the recommended standards).

[6] A significant provision of the wholesale market demand response measurement and verification standards sent to the WEQ EC was the provision that the standards are only applicable to ISO-RTO areas and that non ISO-RTO areas shall develop wholesale market demand response measurement and verification standards as needed in the future. NAESB did not identify any wholesale market demand response products and services that were not administered by ISOs or RTOs.

[7] WEQ Request for Comments, *available at* http://www.naesb.org/weq_request.asp. The comments are located in the row titled, 2009 WEQ Annual Plan Item 5(a).

[8] NAESB WEQ Executive Committee Meeting Minutes, *available at* http://www.naesb.org/pdf4/weq_ec012709dm.doc, January 27, 2009.

9 WEQ Member Ratification of the wholesale M&V standards, *available at* http://www.naesb.org/ratification.asp. The ratification tally is located on the row dated February 12, 2009.

[10] NAESB WEQ Annual Plan 5(a) Final Action: Review and develop business practice standards to support DR and DSM-EE programs, Ratified March 16, 2009, *available at* http://www.naesb.org/member_login_form.asp?doc=fa_weq_2008_api5a.doc

[11] *Id*.

This report is intended solely as a status report from NAESB regarding the DSM-EE subcommittee process, issues and standards. NAESB does not advocate that the Commission take a particular position on any of the issues presented.

Appendix A
DSM-EE Distribution List – Sorted by Organization

Jeb Bartley, Accenture
Amadou Fall, ACES Power Marketing, LLC
Roy True, ACES Power Marketing
H. Neal Allen, Alabama Power Company
Judy W. Ray, Alabama Power Company
David P. Johnson, Allegheny Energy, Inc.
Cynthia A. Menhorn, Allegheny Energy
Terri Grabiak, Allegheny Power
Cassandra Robinson, Allegheny Power
Thomas Rone, Allegheny Power
Jason J. Wojciechowicz, Allegheny Power
Steve Capanna, Alliance to Save Energy
Joe Loper, Alliance to Save Energy
Lonni Dieck, American Electric Power
Sherri Monteith, American Electric Power
Mariam Arnaout, American Gas Association (AGA)
J.P. Blackford, American Public Power Association
Allen Mosher, American Public Power Association
S Balakrishnan, ANB Enterprises, Inc.
Bob Gray, Arizona Corporation Commission
Kent Walter, Arizona Public Service
Meg Matt, Association of Energy Services Professionals (AESP)
Bob Rowe, Balhoff & Rowe, LLC
Howard H. Shafferman, Ballard Spahr Andrews & Ingersoll, LLP
David Kelly, Baltimore Gas and Electric
Ruth Kiselewich, Baltimore Gas and Electric
Jeanie Nathaniel, Baltimore Gas and Electric
Phil Precht, Baltimore Gas and Electric
Mary Straub, Baltimore Gas and Electric
William Wolf, Baltimore Gas and Electric
Yolanda Mason, Bayboro EC, Inc.
Vicky A. Bailey, BHMM Energy Services, LLC
Pamela Sporborg, Bonneville Power Administratioin
Ken Keating, Bonneville Power Authority
Rodereck Kelley, Bonneville Power Authority
Philip Q. Hanser, Brattle Group, The
Shaun Moher, Brickfield, Burchette, Ritts and Stone
Damon Xenopoulos, Brickfield, Burchette, Ritts & Stone, PC
The Honorable Dian Grueneich, Commissioner, California Public Utilities Commission
Glenn Garland, CLEAResult Incorporated
Jonathan Kleinman, CLEAResult Incorporated
John Oyhenart, CLEAResult Incorporated
Dan Ellis, Climate Master
Robert Sallee, Climate Master
Jeff Hein, Colorado Public Utilities Commission
Jim Templeton, Comprehensive Energy Services
Cynthia Arcate, ComVerge
Bob Bress, ComVerge
Wendell Miyaji, ComVerge
Blake Morrison, ComVerge
Chris Fan, Con Edison
Elena Futoryan, Con Edison
Andre Wellington, Con Edison
Nelson Yip, Con Edison
Tess Pierluissi, Consolidated Edison
Marc Hoffman, Consortium for Energy Efficiency
Monica Nevius, Consortium on Energy Efficiency
Cheryl Hindes, BGE Constellation Energy
Tarra Bolduc, Constellation NewEnergy
Brett Feldman, Constellation NewEnergy
Gregory M. Urbin, Constellation NewEnergy
Teri Van Sumeren, Consumers Energy
Janette Dudley, CPower, Inc.
Dirk Mahling, CPower, Inc.
Nicholas Justice Planson, CPower, Inc.
Katherine George, Demand Response Coordinating Committee
Michael R. Flores, Direct Energy
Chuck Moore, Direct Energy
Jamie Wimberly, Distributed Energy Financial Group LOC
Ben Boyd, Distribution Control Systems, Inc.
Daniel Cleverdon, District of Columbia Public Service Commission
Robert Burnette, Dominion
Ed Hall, Dominion
Mike Jesensky, Dominion
Deanna Kesler, Dominion
David Koogler, Dominion
Ripley Newcomb, Dominion
Shannon Venable, Dominion
Kathy W. Johnson, Dominion Resources
Anne B. Rhoades, Dominion Resources

Richard Zelenko, Dominion Retail Inc.
Mary Edwards, Dominion Virginia Power
Clayton Crouch, Dominion Virginia Power/North Carolina Power
Rob Rice, Dominion Virginia Power
Clifford Grimm, DTE Energy
Mark R. Williamson, DTE Energy
Bruce Sailors, Duke Energy
Walt Yeager, Duke Energy Americas, LLC
Ollie Frazier, Duke Energy Corporation
Dan Jones, Duke Energy Corporation
Thomas Osterhus, Duke Energy
Dan Flaherty, Duquesne Light Company
Mary Anne Brelinsky, Eagle Energy Partners
Cade Burks, EC Power
Eric Ackerman, Edison Electric Institute
James P. Fama, Edison Electric Institute
Diane Munns, Edison Electric Institute
Steven Rosenstock, Edison Electric Institute
Grace Soderberg, Edison Electric Institute
John Cowan, Efficiency Valuation Organization
Abraham Raher, Efficiency Valuation Organization
Bernie Neenan, EPRI
Bob Entriken, Electric Power Research Institute
Krish Gomatom, Electric Power Research Institute
Jennifer Robinson, Electric Power Research Institute
Jack Cashin, Electric Power Supply Association
John Shelk, Electric Power Supply Association
Steve Krein, Electric Reliability Council of Texas
Joel Mickey, Electric Reliability Council of Texas
Susan Munson, Electric Reliability Council of Texas
Paul Wattles, Electric Reliability Council of Texas
Phil Bisesi, ElectriCities of North Carolina
Greg Locke, ElectriCities of North Carolina
John Hughes, Electricity Consumers Resource Council (ELCON)
Ren Orans, Energy and Environmental Economics, Inc.
Jacob Dobscha, Energy Connect
Linda Fink, Energy Curtailment Specialist, Inc.
Michael Jaeger, Energy Curtailment Specialists, Inc.
Daniel Perez, Energy Curtailment Specialists, Inc.
Marjorie Perlman, Energy East Management
Tom Gianneschi, Energy Regulatory Affairs, Alcoa, Inc.
George Behr, Energy Services Group
Fred Gordon, Energy Trust of Oregon
David Clarke, Energy Washington Week
Tom Atkinson, EnerNOC
Aaron Breidenbaugh, EnerNOC
Kristin Brief, EnerNOC
Phil Giudice, EnerNOC
Tim Healy, EnerNOC
Rick Paradis, EnerNOC
Brett A. Perlman, Bector Consultant
Terry Sick, EnerNOC
Rob Southern, EnerNOC
Mark Bruckner, Entergy
Ed Davis, Entergy
Floyd Galvan, Entergy
Karen Radosevich, Entergy
Marc Tannenbaum, Evergreen Software Inc.
Scott Brown, Exelon Corporation
Stephen Bennett, Exelon Power Team
Ryan Irwin, Federal Energy Regulatory Commission
David Kathan, Federal Energy Regulatory Commission
Bill Lohrman, Federal Energy Regulatory Commission
Mary Beth Tighe, Federal Energy Regulatory Commission
Sandra Waldstein, Federal Energy Regulatory Commission
The Honorable Jon Wellinghoff, Commissioner, Federal Energy Regulatory Commission
Dennis Brandt, Florida Power and Light Company
Paul N. Smolen, Fox, Smolen & Associates
Phil Audet, Frontier Associates
Jay Zarnikau, Frontier Associates
Earl Fair, Gainesville Regional Utilities
Richard Spellman, GDS Associates, Inc.
Steve Isser, Good Company Associates
Robert King, Good Company Associates
Bill Bland, GoodCents
Robert Mason, GoodCents
Michael Chen-Young, GreenSmith Energy Management Systems
Marija Zivanovic Smith, Gridpoint

Donna Harper, Honeywell
Thomas McMahon, Honeywell Utility Solutions
Val Jensen, ICF International
David Meisegeier, ICF International
David Pickles, ICF International
William (Bill) Prindle, ICF International
Lou Ann Westerfield, Idaho Public Utility Commission
Biju Gopi, IESO
Marvin Rosenberg, Independent
Rhonda Ferguson, Integrys
Bill Bourbonnais, Integrys Energy Services, Inc.
Dennis M. Derricks, Integrys Group
Jim Beyer, Integrys
Melissa Lauderdale, Integrys Energy
Ilze Rukis, Integrys Energy Group
Steve Schiller, International Program Measurement and Verification Protocol (IPMVP)
Robert Burke, ISO New England Inc.
Matthew F. Goldberg, ISO New England, Inc.
David LaPlante, ISO New England Inc.
Robert Laurita, ISO New England Inc.
Eric Winkler, ISO New England Inc.
Henry Yoshimura, ISO New England Inc.
Dave Hanna, Itron – Consulting & Analysis
P G (Bud) Para, JEA
Jason Jones, Kansas City Power & Light
Daniel Waintroob, KEMA Services
Mimi Goldberg, Kema/Xnergy
Liz Hicks, Kema/Xnergy
Bruce Johnson, KeySpan Corporation
Chuck Goldman, Lawrence Berkeley National Laboratory
Grayson Heffner, Lawrence Berkeley National Laboratory
Mark R. Bowen, Lockheed Martin Information Technology
Rebecca A. Klein, Loeffler Tuggey Pauerstein Rosenthal, LLP
Richard Davies, Maine Office of Public Advocate
Denis Bergeron, Maine Public Utilities Commission
Katherine Johnson, Market Development Group
W. Robert Keating, Mass. Department of Telecommunication & Energy
The Honorable Alan M. Freifeld, Commissioner, Maryland Public Service Commission
The Honorable James Y Kerr III, McGuire Woods LLP & McGuire Woods Consulting LLC
Grey Staples, Mendota Group, LLC
Jeff King, Metropolitan Washington Council of Governments
Rick Leuthauser, MidAmerican Energy Company
Carol D. Parker, MidAmerican Energy Company
Richard Walker, MidAmerican Energy Company
James Wilson, MidAmerican Energy Company
Alicia Ward, Midwest Energy Efficiency Alliance
Robert Borlick, Midwest ISO
Annette Holst, MidAmerican Energy
Vijaya Ganugula, Midwest ISO
Rob Lamoureux, Midwest ISO
Mike Robinson, Midwest ISO
Ed Skiba, Midwest ISO
Mark Westendorf, Midwest ISO
Li Zhang, Midwest ISO
Shel Berg, Midwest Reliability Organization
Gary Kajander, Monsanto
Jonathan Booe, NAESB
Rae McQuade, NAESB
Denise Rager, NAESB
Angela Gonzales, NAESB
Veronica Thomason, NAESB
Chuck Gray, National Association of Regulatory Utility Commissioners
Charles A. Acquard, National Association of State Utility Consumer Advocates
John McCarthy, National Energy Board
Craig G. Goodman, National Energy Marketers Association
Stacey Rantala, National Energy Marketers Association
Mike Novak, National Fuel Gas Distribution Corporation
Tim Stout, National Grid
Carol White, National Grid
John Holt, National Rural Electric Cooperative Association
Jay Morrison, National Rural Electric Cooperative Association
Mary Ann Ralls, National Rural Electric Cooperative Association

Timothy Douek, Navigant Consulting
Jack Floyd, NC Utilities Commission – Public Staff
Bob Hinton, NC Utilities Commission – Public Staff
John W. Charlton, New York ISO
Robb Pike, New York ISO
Donna Pratt, New York ISO
Phillip Shafeei, New York ISO
Diane Barney, New York Public Service Commission
Alice Miller, NewYork Department of Public Service
Lisa Rosi, New York Department of Public Service
Sigmund Peplowski, New York State Dept. of Public Service
Bruce Ellsworth, New York State Reliability Council
Greg Clendenning, Nexus Market Research, Inc.
Tim Pettit, Nexus Market Research, Inc.
Mark Lauby, North American Electric Reliability Corporation
David R. Nevius, North American Electric Reliability Corporation
Stephanie Monzon, North American Electric Reliability Corporation
John Moura, North American Electric Reliability Corporation
Julia Souder, North American Electric Reliability Corporation
Clay Norris, North Carolina Municipal Power Agency #1
The Honorable Samuel Ervin IV, Commissioner, North Carolina Utilities Commission
Julie Michals, Northeast Energy Efficiency Partnerships, Inc.
Elizabeth Titus, Northeast Energy Efficiency Partnerships, Inc.
Sue Coakley, Northeast Energy Efficiency Project
Michael F. Ahern, Northeast Utilities
Calvin Bowie, Northeast Utilities
Dave Scott, Northeast Utilities
John Scricca, Northeast Utilities
Tom Eckman, Northwest Power and Conservation Council
Paul McCurley, NRECA
David Olivier, NSTAR Electric & Gas
Lisa Shea, NSTAR Electric & Gas
Michelle D'Antuono, Occidental Energy Ventures Corp
Scott Wardle, Occidental Chemical
Faith S. Lambert, Office of Weatherization and Intergovernmental Program, EE-2K
The Honorable Donald L. Mason, All American Energy Partners LLC
Thom Pearce, Public Utilities Commission of Ohio
Deborah McKeever, Oncor
Terry Bates, Oncor Electric Delivery
Jeff Reed, Oncor Electric Delivery
Neil Hutchings, Ontario Power Authority
Kim Pederson, Otter Tail Power Company
Rebecca Wentler, Otter Tail Power Company
Robert Kasman, Pacific Gas & Electric
Don Peterson, Pacific Gas and Electric
Bill Marek, PacifiCorp
Eilliott Boardman, Peak Load Management Association (PLMA)
Craig Boice, Peak Load Management Association (PLMA)
John J. McCawley, PECO
Kurt Sontag, PECO Energy
Susan Covino, PJM Interconnection, LLC
Leanne Harrison, PJM Interconnection, LLC
Pete Langben, PJM Interconnection, LLC
Anne Arquit Niederberger, Policy Solutions
Jim Minneman, PPL Solutions
David Meade, Praxair
Michael Jacob, Progress Energy Carolinas, Inc.
Nina McLaurin, Progress Energy
John Masiello, Progress Energy Florida
Charles Thomas, Progress Energy Florida
Steven Maestas, Public Service Co. of New Mexico
Susanna Chiu, Public Service Electric and Gas
Fred Lynk, Public Service Electric and Gas
Terry Moran, Public Service Electric and Gas
Shawnee Claiborn-Pinto, Public Utility Commission of Texas
Cliff Crouch, Public Utility Commission of Texas
Ernest Garcia, Public Utility Commission of Texas
Theresa Gross, Public Utility Commission of Texas
Voiteh Yaroshevich, Public Utility Commission of Texas
Syd H. France, Puget Sound Energy
Shannon McCormick, Puget Sound Energy
Kevin Gresham, Reliant Energy
Ross Malme, RETX

Bob Schwermann, Sacramento Municipal Utility District
Vikki Wood, Sacramento Municipal Utility District
Joseph Lynch, SCANA
Erin Erben, Salt River Project
Bill Lawton, Seminole Electric
Lane Mahaffey, Seminole Electric
Kelly Ross Gillespie, Southeast Energy Efficiency Alliance c/o Alliance to Save Energy
Joe Marone, Southern California Edison
Lee Stewart, Southern California Gas Company
Roman Carter, Southern Company
John Ciza, Southern Company
Wilbur Johnson, Southern Company
Daryl McGee, Southern Company
Dean Ulch, Southern Company
Kyle Leach, Southern Company
Howard Geller, Southwest Energy Efficiency Alliance
Michael Desselle, Southwest Power Pool
Carl Monroe, Southwest Power Pool
Mary Klos, Summit Blue Consulting
Daniel Violette, Summit Blue Consulting
Kevin Coney, Summit Blue Consulting
Paul Peterson, Synapse Energy Economics
Gail McKaig, Tampa Electric Company
Nick Hall, TecMarket Works
Howard Bryant, TECO Energy
Matt Brown, Tennessee Valley Authority
David Chamberlain, Tennessee Valley Authority
Edward Colston, Tennessee Valley Authority
Valerie Crockett, Tennessee Valley Authority
Kathy York, Tennessee Valley Authority
Carrie Voss, Tennessee Valley Authority
Robert W. Gee, The Gee Strategies Group
Richard Sedano, The Regulatory Assistance Project
Karen Wei, The Structure Group
Mack Wallace, TXU Energy
Christopher Freitas, U S Department of Energy
Lawrence Mansueti, U S Department of Energy
Lew W. Pratsch, U S Department of Energy
Stacy Angel, U S Environmental Protection Agency
Nikolaas Dietsch, U S Environmental Protection Agency
Dan Delurey, U.S. Demand Response Coordinating Committee
Daniel Adamo, UGI Utilities, Inc.
William McAllister, UGI Utilities
Scott Coe, UISOL
Michelle Michot Foss, University of Texas at Austin Center for Energy Economics
Ron Russell, University of Texas MD Anderson Cancer Center
David R. Eichenlaub, VA State Corporation Commission
Amanda Eades, Vectren
Marlene Parsley, Vectren
Robbie Sears, Vectren
Pam Stonier, Vermont Public Service Board
Diane Jenkins, Virginia State Corporation Commission
Paul M. Pietsch, Wedgemere Group
Michelle Mizumori, Western Electricity Coordinating Council
Mike Wells, Western Electricity Coordinating Council
Christopher Burden, Williams Gas Pipeline
Ronda Ferguson, Wisconsin Public Service Corporation
Britney Ryder

Eric Ackerman, Edison Electric Institute
Charles A. Acquard, National Association of State Utility Consumer Advocates
Daniel Adamo, UGI Utilities
Michael F. Ahern, Northeast Utilities
H. Neal Allen, Alabama Power Company
Stacy Angel, U S Environmental Protection Agency
Cynthia Arcate, ComVerge
Mariam Arnaout, American Gas Association (AGA)
Tom Atkinson, EnerNOC
Phil Audet, Frontier Associates
Vicky A. Bailey, BHMM Energy Services, LOC
S Balakrishnan, ANB Enterprises, Inc.
Diane Barney, New York Public Service Commission
Terry Bates, Oncor Electric Delivery
Jeb Bartley, Accenture
George Behr, Energy Services Group
Stephen Bennett, Exelon Power Team
Shel Berg, Midwest Reliability Organization
Denis Bergeron, Maine Public Utilities Commission
Jim Beyer, Integrys
Phil Bisesi, ElectriCities of North Carolina
J.P. Blackford, American Public Power Association
Bill Bland, GoodCents
Eilliott Boardman, Peak Load Management Association (PLMA)
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Tara Bolduc, Constellation NewEnergy
Jonathan Booe, NAESB
Robert Borlick, Midwest ISO
Bill Bourbonnais, Integrys Energy Services, Inc.
Mark R. Bowen, Lockheed Martin Information Technology
Calvin Bowie, Northeast Utilities
Ben Boyd, Distribution Control Systems, Inc.
Dennis Brandt, Florida Power and Light Company
Mary Anne Brelinsky, Eagle Energy Partners
Aaron Breidenbaugh, EnerNOC
Bob Bress, ComVerge
Kristin Brief, EnerNOC
Matt Brown, Tennessee Valley Authority
Scott Brown, Exelon Corporation
Mark Bruckner, Entergy
Howard Bryant, TECO Energy
Christopher Burden, Williams Gas Pipeline
Robert Burke, ISO New England Inc.
Cade Burks, EC Power
Robert Burnette, Dominion
Steve Capanna, Alliance to Save Energy
Roman Carter, Southern Company
Jack Cashin, Electric Power Supply Association
David Chamberlain, Tennessee Valley Authority
John W. Charlton, New York ISO
Michael Chen-Young, GreenSmith Energy Management Systems
Susanna Chiu, Public Service Electric and Gas
John Ciza, Southern Company
Shawnee Claiborn-Pinto, Public Utility Commission of Texas
David Clarke, Energy Washington Week
Greg Clendenning, Nexus Market Research, Inc.
Daniel Cleverdon, District of Columbia Public Service Commission
Sue Coakley, Northeast Energy Efficiency Project
Scott Coe, UISOL
Edward Colston, Tennessee Valley Authority
Kevin Coney, Summit Blue Consulting
Susan Covino, PJM Interconnection, LLC
John Cowan, Efficiency Valuation Organization
Valerie Crockett, Tennessee Valley Authority
Clayton Crouch, Dominion Virginia Power/North Carolina Power
Cliff Crouch, Public Utility Commission of Texas
Michelle D'Antuono, Occidental Energy Ventures Corp
Ed Davis, Entergy
Richard Davies, Maine Office of Public Advocate
Dan Delurey, U.S. Demand Response Coordinating Committee
Dennis M. Derricks, Integrys Group
Michael Desselle, Southwest Power Pool
Lonni Dieck, American Electric Power
Nikolaas Dietsch, U S Environmental Protection Agency
Jacob Dobscha, Energy Connect
Timothy Douek, Navigant Consulting
Janette Dudley, CPower, Inc.
Amanda Eades, Vectren

Tom Eckman, Northwest Power and Conservation Council
Mary Edwards, Dominion Virginia Power
David R. Eichenlaub, VA State Corporation Commission
Dan Ellis, Climate Master
Bruce Ellsworth, New York State Reliability Council
Robert Entriken, Electric Power Research Institute
Erin Erben, Salt River Project
The Honorable Samuel Ervin IV, Commissioner, North Carolina Utilities Commission
Earl Fair, Gainesville Regional Utilities
Amadou Fall, ACES Power Marketing, LLC
Chris Fan, Con Edison
James P. Fama, Edison Electric Institute
Brett Feldman, Constellation NewEnergy
Rhonda Ferguson, Integrys
Ronda Ferguson, Wisconsin Public Service Corporation
Linda Fink, Energy Curtailment Specialist, Inc.
Dan Flaherty, Duquesne Light Company
Michael R. Flores, Direct Energy
Jack Floyd, NC Utilities Commission – Public Staff
Michelle Michot Foss, University of Texas at Austin Center for Energy Economics
Syd H. France, Puget Sound Energy
Ollie Frazier, Duke Energy Corporation
The Honorable Alan M. Freifeld, Commissioner, Maryland Public Service Commission
Christopher Freitas, U S Department of Energy
Elena Futoryan, Con Edison
Floyd Galvan, Entergy
Vijaya Ganugula, Midwest ISO
Ernest Garcia, Public Utility Commission of Texas
Glenn Garland, CLEAResult Incorporated
Robert W. Gee, The Gee Strategies Group
Howard Geller, Southwest Energy Efficiency Alliance
Katherine George, Demand Response Coordinating Committee
Tom Gianneschi, Energy Regulatory Affairs, Alcoa, Inc.
Kelly Ross Gillespie, Southeast Energy Efficiency Alliance c/o Alliance to Save Energy
Kevin Gresham, Reliant Energy
Theresa Gross, Public Utility Commission of Texas
Phil Giudice, EnerNOC
Mimi Goldberg, Kema/Xnergy
Chuck Goldman, Lawrence Berkeley National Laboratory
Krish Gomatom, Electric Power Research Institute
Angela Gonzales, NAESB
Craig G. Goodman, National Energy Marketers Association
Biju Gopi, IESO
Fred Gordon, Energy Trust of Oregon
Terri Grabiak, Allegheny Power
Bob Gray, Arizona Corporation Commission
Chuck Gray, National Association of Regulatory Utility Commissioners
Kevin Gresham, Reliant Energy
Clifford Grimm, DTE Energy
The Honorable Dian Grueneich, Commissioner, California Public Utilities Commission
Ed Hall, Dominion
Nick Hall, TecMarket Works
Dave Hanna, Itron – Consulting & Analysis
Philip Q. Hanser, Brattle Group, The
Donna Harper, Honeywell
Leanne Harrison, PJM Interconnection, LLC
Tim Healy, EnerNOC
Grayson Heffner, Lawrence Berkeley National Laboratory
Jeff Hein, Colorado Public Utilities Commission
Liz Hicks, Kema/Xnergy
Cheryl Hindes, BGE Constellation Energy
Bob Hinton, NC Utilities Commission – Public Staff
Marc Hoffman, Consortium for Energy Efficiency
Annette Holst, MidAmerican Energy
John Holt, National Rural Electric Cooperative Association
John Hughes, Electricity Consumers Resource Council (ELCON)
Neil Hutchings, Ontario Power Authority
Ryan Irwin, Federal Energy Regulatory Commission
Steve Isser, Good Company Associates
Michael Jacob, Progress Energy Carolinas, Inc.
Michael Jaeger, Energy Curtailment Specialists, Inc.
Diane Jenkins, Virginia State Corporation Commission
Val Jensen, ICF International
Mike Jesensky, Dominion
Bruce Johnson, KeySpan Corporation
David P. Johnson, Allegheny Energy, Inc.

Katherine Johnson, Market Development Group
Kathy W. Johnson, Dominion Resources
Wilbur Johnson, Southern Company
Dan Jones, Duke Energy Corporation
Jason Jones, Kansas City Power & Light
Gary Kajander, Monsanto
Robert Kasman, Pacific Gas & Electric
David Kathan, Federal Energy Regulatory Commission
Ken Keating, Bonneville Power Administration
W. Robert Keating, Mass. Department of Telecommunication & Energy
Rodereck Kelley, Bonneville Power Authority
David Kelly, Baltimore Gas and Electric
The Honorable James Y Kerr III, McGuire Woods LLP & McGuire Woods Consulting LLC
Deanna Kesler, Dominion
Jeff King, Metropolitan Washington Council of Governments
Robert King, Good Company Associates
Ruth Kiselewich, Baltimore Gas and Electric
Rebecca A. Klein, Loeffler Tuggey Pauerstein Rosenthal, LLP
Jonathan Kleinman, CLEAResult Incorporated
Mary Klos, Summit Blue Consulting
David Koogler, Dominion
Steve Krein, Electric Reliability Council of Texas
Faith S. Lambert, Office of Weatherization and Intergovernmental Program, EE-2K
Rob Lamoureux, Midwest ISO
Pete Langben, PJM Interconnection, LLC
David LaPlante, ISO New England Inc.
Mark Lauby, North American Electric Reliability Corporation
Melissa Lauderdale, Integrys Energy
Robert Laurita, ISO New England Inc.
Bill Lawton, Seminole Electric
Kyle Leach, Southern Company
Rick Leuthauser, MidAmerican Energy Company
Greg Locke, ElectriCities of North Carolina
Bill Lohrman, Federal Energy Regulatory Commission
Joe Loper, Alliance to Save Energy
Joseph Lynch, SCANA
Fred Lynk, Public Service Electric and Gas
Steven Maestas, Public Service Co. of New Mexico
Lane Mahaffey, Seminole Electric
Dirk Mahling, CPower, Inc.
Ross Malme, RETX
Lawrence Mansueti, U S Department of Energy
Bill Marek, PacifiCorp
Doug Marley
Joe Marone, Southern California Edison
John Masiello, Progress Energy Florida
The Honorable Donald L. Mason, All American Energy Partners LLC
Yolanda Mason, Bayboro EC, Inc.
Robert Mason, GoodCents
Meg Matt, Association of Energy Services Professionals (AESP)
William McAllister, UGI Utilities
John McCarthy, National Energy Board
John J. McCawley, PECO
Daryl McGee, Southern Company
Gail McKaig, Tampa Electric Company
Deborah McKeever, Oncor
Nina McLaurin, Progress Energy
Shannon McCormick, Puget Sound Energy
Paul McCurley, NRECA
Thomas McMahon, Honeywell Utility Solutions
Rae McQuade, NAESB
David Meade, Praxair
David Meisegeier, ICF International
Cynthia A. Menhorn, Allegheny Energy
Julie Michals, Northeast Energy Efficiency Partnerships, Inc.
Joel Mickey, Electric Reliability Council of Texas
Wendell Miyaji, ComVerge
Alice Miller, New York Department of Public Service
Jim Minneman, PPL Solutions
Michelle Mizumori, Western Electricity Coordinating Council
Shaun Moher, Brickfield, Burchette, Ritts and Stone
Carl Monroe, Southwest Power Pool
Sherri Monteith, American Electric Power
Stephanie Monzon, North American Electric Reliability Corporation
Chuck Moore, Direct Energy
Terry Moran, Public Service Electric and Gas
Blake Morrison, ComVerge
Jay Morrison, National Rural Electric Cooperative Association
Allen Mosher, American Public Power Association

John Moura, North American Electric Reliability Corporation

Diane Munns, Edison Electric Institute

Susan Munson, Electric Reliability Council of Texas

Jeanie Nathaniel, Baltimore Gas and Electric

Bernie Neenan, EPRI

Monica Nevius, Consortium on Energy Efficiency

David R. Nevius, North American Electric Reliability Corporation

Ripley Newcomb, Dominion

Anne Arquit Niederberger, Policy Solutions

Clay Norris, North Carolina Municipal Power Agency #1

Mike Novak, National Fuel Gas Distribution Corporation

David Olivier, NSTAR Electric & Gas

Ren Orans, Energy and Environmental Economics, Inc.

Thomas Osterhus, Duke Energy

Ed Overtree, Constellation NewEnergy

John Oyhenart, CLEAResult Incorporated

P G (Bud) Para, JEA

Rick Paradis, EnerNOC

Carol D. Parker, MidAmerican Energy Company

Marlene Parsley, Vectren

Thom Pearce, Public Utilities Commission of Ohio

Kim Pederson, Otter Tail Power Company

Sigmund Peplowski, New York State Dept. of Public Service

Daniel Perez, Energy Curtailment Specialists, Inc.

Marjorie Perlman, Energy East Management

Brett A. Perlman, Bector Consultant

Don Peterson, Pacific Gas and Electric

Paul Peterson, Synapse Energy Economics

Tim Pettit, Nexus Market Research, Inc.

David Pickles, ICF International

Tess Pierluissi, Consolidated Edison

Paul M. Pietsch, Wedgemere Group

Robb Pike, New York ISO

Nicholas Justice Planson, CPower, Inc.

Lew W. Pratsch, U S Department of Energy

Donna Pratt, New York ISO

Phil Precht, Baltimore Gas and Electric

William (Bill) Prindle, ICF International

Karen Radosevich, Entergy

Denise Rager, NAESB

Abraham Raher, Efficiency Valuation Organization

Mary Ann Ralls, National Rural Electric Cooperative Association

Stacey Rantala, National Energy Marketers Association

Judy W. Ray, Alabama Power Company

Jeff Reed, Oncor Electric Delivery

Rob Rice, Dominion Virginia Power

Anne B. Rhoades, Dominion Resources

Cassandra Robinson, Allegheny Power

Jennifer Robinson, Electric Power Research Institute

Mike Robinson, Midwest ISO

Thomas Rone, Allegheny Power

Marvin Rosenberg, Independent

Steven Rosenstock, Edison Electric Institute

Lisa Rosi, New York State Dept. of Public Service

Ron Russell, University of Texas MD Anderson Cancer Center

Bob Rowe, Balhoff & Rowe, LLC

Ilze Rukis, Integrys Energy Group

Britney Ryder,

Bruce Sailors, Duke Energy

Robert Sallee, Climate Master

Steve Schiller, International Program Measurement and Verification Protocol (IPMVP)

Bob Schwermann, Sacramento Municipal Utility District

Dave Scott, Northeast Utilities

John Scricca, Northeast Utilities

Robbie Sears, Vectren

Richard Sedano, The Regulatory Assistance Project

Phillip Shafeei, New York ISO

Howard H. Shafferman, Ballard Spahr Andrews & Ingersoll, LLP

Lisa Shea, NSTAR Electric & Gas

John Shelk, Electric Power Supply Association

Ed Skiba, Midwest ISO

Terry Sick, EnerNOC

Paul N. Smolen, Fox, Smolen & Associates

Grace Soderberg, Edison Electric Institute

Kurt Sontag, PECO Energy

Julia Souder, North American Electric Reliability Corporation

Rob Southern, EnerNOC

Richard Spellman, GDS Associates, Inc.

Pamela Sporborg, Bonneville Power Administration

Grey Staples, Mendota Group, LLC

Lee Stewart, Southern California Gas Company

Pam Stonier, Vermont Public Service Board
Tim Stout, National Grid
Mary Straub, Baltimore Gas & Electric
Marc Tannenbaum, Evergreen Software Inc.
Jim Templeton, Comprehensive Energy Services
Charles Thomas, Progress Energy Florida
Veronica Thomason, NAESB
Mary Beth Tighe, Federal Energy Regulatory Commission
Elizabeth Titus, Northeast Energy Efficiency Partnerships, Inc.
Roy True, ACES Power Marketing
Dean Ulch, Southern Company
Gregory M. Urbin, Constellation NewEnergy
Teri Van Sumeren, Consumers Energy
Shannon Venable, Dominion
Daniel Violette, Summit Blue Consulting
Carrie Voss, Tennessee Valley Authority
Daniel Waintroob, KEMA Services
Sandra Waldstein, Federal Energy Regulatory Commission
Mack Wallace, TXU Energy
Richard Walker, MidAmerican Energy Company
Kent Walter, Arizona Public Service
Alicia Ward, Midwest Energy Efficiency Alliance
Scott Wardle, Occidental Chemical
Paul Wattles, Electric Reliability Council of Texas
The Honorable Jon Wellinghoff, Commissioner, Federal Energy Regulatory Commission
Karen Wei, The Structure Group
Andre Wellington, Con Edison
Mike Wells, Western Electricity Coordinating Council
Rebecca Wentler, Otter Tail Power Company
Mark Westendorf, Midwest ISO
Lou Ann Westerfield, Idaho Public Utility Commission
Carol White, National Grid
Mark R. Williamson, DTE Energy
James Wilson, MidAmerican Energy Company
Jamie Wimberly, Distributed Energy Financial Group LOC
Eric Winkler, ISO New England Inc.
Jason J. Wojciechowicz, Allegheny Power
William Wolf, Baltimore Gas and Electric
Vikki Wood, Sacramento Municipal Utility District
Damon Xenopoulos, Brickfield, Burchette, Ritts & Stone, PC
Voitech Yaroshevich, Public Utility Commission of Texas
Walt Yeager, Duke Energy Americas, LLC
Nelson Yip, Con Edison
Kathy York, Tennessee Valley Authority
Henry Yoshimura, ISO New England Inc.
Jay Zarnikau, Frontier Associates
Richard Zelenko, Dominion Retail Inc.
Li Zhang, Midwest ISO
Marija Zivanovic Smith, Gridpoint

Appendix B – DSM-EE Subcommittee Meeting Minutes Links			
Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
July 26, 2007	DSM-EE Meeting, Washington, DC Hosted by the American Gas Association	Meeting Minutes: http://www.naesb.org/pdf3/dsmee072607fm.doc	53
September 25, 2007	DSM-EE Meeting, Austin, TX Hosted by ERCOT	Meeting Minutes: http://www.naesb.org/pdf3/dsmee092507fm.doc	54
November 20, 2007	DSM-EE Group 1, Preamble, Working Session, Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf3/dsmee112707mn.doc	99
November 20, 2007	DSM-EE Group 3, Wholesale Electric, Working Session, Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf3/dsmee112007mn.doc	72
November 26, 2007	DSM-EE Group 4, Glossary, Working Session, Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf3/dsmee112607mn.doc	100
November 30, 2007	DSM-EE Meeting, Richmond, VA Hosted by Dominion	Meeting Minutes: http://www.naesb.org/pdf3/dsmee113007fm.doc	65
December 17, 2007	DSM-EE Group 4, Glossary, Working Session, Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf3/dsmee121707mn.doc	89
January 17, 2008	DSM-EE Group 1, Preamble, Working Session, Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf3/dsmee_group1_011708mn.doc	50
January 21, 2008	DSM-EE Group 4, Glossary, Working Session, Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf3/dsmee_group4_012108mn.doc	43
January 23, 2008	DSM-EE Meeting, Baltimore, MD Hosted by Baltimore Gas and Electric	Meeting Minutes: http://www.naesb.org/pdf3/dsmee012308fm.doc	36
March 28, 2008	DSM-EE Meeting, Houston, TX Hosted by NAESB Office	Meeting Minutes: http://www.naesb.org/pdf3/dsmee032808fm.doc	56
May 30, 2008	DSM-EE Meeting, Houston, TX Hosted by NAESB Office	Meeting Minutes: http://www.naesb.org/pdf3/dsmee053008fm.doc	30
July 30, 2008	DSM-EE Meeting, Houston, TX Hosted by NAESB Office	Meeting Minutes: http://www.naesb.org/pdf3/dsmee073008fm.doc	41
August 21, 2008	DSM-EE Group 1, Preamble, Working Session, Conference Call with Web Conferencing	Meeting Minutes: http://www.naesb.org/pdf3/dsmee_glossary_preamble_082108mn.doc	23
October 3, 2008	DSM-EE Meeting, Austin, TX	Meeting Minutes:	22

Appendix B – DSM-EE Subcommittee Meeting Minutes Links			
Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
	Hosted by ERCOT	http://www.naesb.org/pdf4/dsmee100308fm.doc Attachment to Minutes: http://www.naesb.org/pdf3/dsmee100308a1.doc	
December 2, 2008	DSM-EE Meeting, Birmingham, AL Hosted by Alabama Power	Meeting Minutes: Attachment to the Minutes: http://www.naesb.org/pdf4/dsmee120208a2.doc http://www.naesb.org/pdf4/dsmee120208a1.doc http://www.naesb.org/pdf4/dsmee120208a3.doc	52

Appendix C – Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
Date	Link to EC Minutes and Voting Records	Link to Comments	Availability of Transcripts[12]
May 8-10, 2007	NAESB Executive Committee Meetings, Washington, DC WEQ EC Minutes: http://naesb.org/pdf2/weq_ec050807fm.doc	No comments requested or provided related to the WEQ DR standards.	Ace Federal Reporters - 202-347-3700
August 14, 2007	NAESB Executive Committee Meetings, Colorado Springs, CO WEQ EC Minutes: http://www.naesb.org/pdf3/weq_ec081407fm.doc	No comments requested or provided related to the WEQ DR standards.	Court Reporter's Clearinghouse - 713-626-2629
November 6-8, 2007	NAESB Executive Committee Meetings, Houston, TX WEQ EC Minutes: http://naesb.org/pdf3/weq_ec110607fm.doc	No comments requested or provided related to the WEQ DR standards.	Preferred Legal - 800-405-4056
February 4, 2008	NAESB Executive Committee Meetings, Houston, TX WEQ EC Minutes: http://www.naesb.org/pdf3/weq_ec020408fm.doc	No comments requested or provided related to the WEQ DR standards.	Preferred Legal – 800-405-4056
May 13, 2008	NAESB Executive Committee Meetings, Washington, DC WEQ EC Minutes: http://www.naesb.org/pdf3/weq_ec051308fm.doc	No comments requested or provided related to the WEQ DR standards.	Ace Federal Reporters - 202-347-3700
August 19, 2008	NAESB Executive Committee Meetings, Colorado Springs, CO WEQ EC Minutes: http://www.naesb.org/pdf4/weq_ec081908fm.doc	No comments requested or provided related to the WEQ DR standards.	Jill Webb, CSR – 281-853-6807
November 4, 2008	NAESB Executive Committee Meetings, Glen Allen, VA WEQ EC Minutes: http://www.naesb.org/pdf4/weq_ec110408fm.doc	No comments requested or provided related to the WEQ DR standards.	Preferred Legal – 800-405-4056
January 14, 2009	WEQ Executive Committee Single Topic Review Session WEQ EC Minutes:	No comments requested or provided related to the WEQ DR standards.	No transcripts provided for review sessions.
February 3, 2009	WEQ Executive Committee Meetings, Phoenix, AZ WEQ EC Minutes: http://www.naesb.org/pdf4/weq_ec020309dm.doc	No comments requested or provided related to the WEQ DR standards.	Preferred Legal – 800-405-4056
December 4, 2008	Request for Comments Due January 12, 2009: http://www.naesb.org/pdf4/weq_2008_api_5a_rec.doc	NAESB Standards Review Subcommittee: http://www.naesb.org/pdf4/weq_120408_srs.doc EnerNOC: http://www.naesb.org/pdf4/weq_120408_enernoc.pdf IRC SRC: http://www.naesb.org/pdf4/weq_120408_src.doc Attachment to IRC SRC Comments:	No transcripts provided as this was not a meeting – it was a request for comments.

[12] The Federal Energy Regulatory Commission and other regulatory agencies may contact NAESB office to obtain electronic copies of the transcripts. All others can contact the transcription service and order the transcripts for a nominal fee.

Appendix C – Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
Date	Link to EC Minutes and Voting Records	Link to Comments	Availability of Transcripts[12]
		http://www.naesb.org/pdf4/weq_120408_src_attachment.doc EVO: http://www.naesb.org/pdf4/weq_120408_evo.pdf ELCON: http://www.naesb.org/pdf4/weq_120408_elcon.doc Entergy: http://www.naesb.org/pdf4/weq_120408_entergy.doc Attachment A to Entergy Comments: http://www.naesb.org/pdf4/weq_120408_entergyA.doc Attachment B to Entergy Comments: http://www.naesb.org/pdf4/weq_120408_entergyB.doc Con Edison: http://www.naesb.org/pdf4/weq_120408_conedison.doc Southern Company Transmission: http://www.naesb.org/pdf4/weq_120408_southernco.pdf NYS Department of Public Service: http://www.naesb.org/pdf4/weq_120408_nys_psc.doc Energy Curtailment Specialist, Inc.: http://www.naesb.org/pdf4/weq_120408_energy_csi.pdf National Rural Electric Cooperative Association: http://www.naesb.org/pdf4/weq_120408_nreca.pdf	
January 27, 2009	WEQ Executive Committee Meeting WEQ EC Minutes: Attachment to the Minutes:	NAESB Standards Review Subcommittee: http://www.naesb.org/pdf4/weq_ec012709w1.doc EnerNOC: http://www.naesb.org/pdf4/weq_ec012709w2.pdf	Jill Webb, CSR – 281-853-6807

Appendix C – Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
Date	Link to EC Minutes and Voting Records	Link to Comments	Availability of Transcripts[12]
	Recommendation: http://www.naesb.org/pdf4/weq_ec012709a2.doc Recommendation (redlined): http://www.naesb.org/pdf4/weq_ec012709a1.doc Meeting Motions: http://www.naesb.org/pdf4/weq_ec012709a3.doc Notational Ballot: http://www.naesb.org/pdf4/weq_ec012709ballot.doc WEQ EC Voting Record:	IRC SRC: http://www.naesb.org/pdf4/weq_ec012709w3.doc Attachment to IRC SRC Comments: http://www.naesb.org/pdf4/weq_ec012709w4.doc EVO: http://www.naesb.org/pdf4/weq_ec012709w5.pdf ELCON: http://www.naesb.org/pdf4/weq_ec012709w6.doc Entergy: http://www.naesb.org/pdf4/weq_ec012709w7.doc Attachment A to Entergy Comments: http://www.naesb.org/pdf4/weq_ec012709w8.doc Attachment B to Entergy Comments: http://www.naesb.org/pdf4/weq_ec012709w9.doc Con Edison: http://www.naesb.org/pdf4/weq_ec012709w10.doc Southern Company Transmission: http://www.naesb.org/pdf4/weq_ec012709w11.pdf NYS Dept. of Public Service: http://www.naesb.org/pdf4/weq_ec012709w12.doc Energy Curtailment Specialists, Inc.: http://www.naesb.org/pdf4/weq_ec012709w13.pdf National Rural Electric Cooperative Association: http://www.naesb.org/pdf4/weq_ec012709w14.pdf Southern Company: http://www.naesb.org/pdf4/weq_ec012709ballot_southern.pdf	

Appendix D – Ratification Ballots and Results Links			
Date of Ratification	Ratification Ballot	Results	Final Actions
March 16, 2009	Ratification Ballot Due March 16, 2009: http://www.naesb.org/member_login_check.asp?doc=weq_rat021209ballot.doc Recommendation: 2008 WEQ Annual Plan Item 5(a) - Review and develop business practice standards to support DR and DSM-EE programs. Revised and approved by the WEQ EC on February 10, 2009 (clean): http://www.naesb.org/member_login_check.asp?doc=weq_rat021209_weq_2008_api5a_rec_clean.doc Recommendation: 2008 WEQ Annual Plan Item 5(a) - Review and develop business practice standards to support DR and DSM-EE programs. Revised and approved by the WEQ EC on February 10, 2009 (redline): http://www.naesb.org/member_login_check.asp?doc=weq_rat021209_weq_2008_api5a_rec_redline.doc	Ratification Tally: http://www.naesb.org/member_login_check.asp?doc=rat_weq031609tally.xls Comments submitted by EnerNOC: http://www.naesb.org/pdf4/weq_rat031609_enernoc.doc	2008 WEQ Annual Plan Item 5(a) Final Action: Review and develop business practice standards to support DR and DSM-EE programs: http://www.naesb.org/member_login_check.asp?doc=fa_weq_2008_api5a.doc

NORTH AMERICAN ENERGY STANDARDS BOARD

2008 WEQ Annual Plan Approved by the Board of Directors on December 18, 2008

	Item Description	Completion[1]	Assignment[2]
1	**Develop business practices standards as needed to complement reliability standards**		
	Develop business practice standards to support and complement NERC reliability standards, NERC policies and NERC standards authorization requests (SARs) using the NERC/NAESB Coordination Joint Standards Development Process as appropriate. Current NAESB activities underway to develop business practice standards that are supportive of this annual plan item are:		
	a) Make version 2 changes to business practices as requested.		
	i) Make changes to business practices as related to inclusion of the NERC Reliability Functional Model functional model entities as NERC undertakes the same efforts. Status: No requests	As requested	BPS
	ii) Continuous support of TLR Procedure in alignment with NERC efforts on TLR Phase II and Phase III which would be included in version 2 development.[3] Status: Complete The "Continuous Support of TLR Procedure in Alignment with NERC Efforts on Phase II and Phase III" recommendation was approved by the BPS to post for the formal comment period. For 2009 specific items for TLR coordination with NERC will be added as needed.	3rd Q, 2008	BPS[4]
	b) Develop business practices to support Coordinate Interchange – R05020 "Include a guideline for rounding schedules with partial mWh's in the coordinate interchange business practice WEQ BPS-002-000" Status: Underway	3rd Q, 2009	JISWG
	c) Operate Within Limits (R03017) as coordinated with the NERC schedule on the same development for reliability standards		
	i) Review the need to develop business practice standards to support Operate Within Limits (R03017) Status: Completed	1st Q, 2008	SRS
	ii) Develop business practice standards to support Operate Within Limits (R03017) Status: Completed No standards are needed at this time	2nd Q, 2008	BPS

End Notes WEQ 2008 Annual Plan:

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

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

[3] For additional information, please see: http://www.naesb.org/pdf3/weq_bps100407w4.ppt for Phase II changes and http://www.naesb.org/pdf2/weq_bps070907w4.doc for Phase III changes.

[4] Joint Development Procedure is to be used by the NERC TLR Drafting Team and NAESB BPS.

NORTH AMERICAN ENERGY STANDARDS BOARD

2008 WEQ Annual Plan Approved by the Board of Directors on December 18, 2008

	Item Description	Completion[1]	Assignment[2]
d)	Prepare recommendations for future path for TLR in concert with NERC, which may include alternative congestion management procedures[5] Status: Underway	2009	BPS[6]
e)	Conduct analysis as to whether standards can be developed which outline a standardized process for the coordination and execution of emergency energy schedules. These would be complementary standards to EOP-002-2 Requirements R4 and R6 (SRS Analysis of EOP-002-2 R4 & R6) Status: Not Started	1st Q, 2009	JISWG
f)	Review Market System Back-Up existing language and review of existing back-up language Status: Completed Per the guidance from the WEQ Executive Committee after presenting the Request for Executive Committee Guidance on WEQ 2008 Provisional Item 5 the SRS developed and approved a "no action" recommendation to close out this annual plan item	4th Q, 2008	SRS
g)	Provide complementary business practice standards to support Coordinate Operations Standards Authorization Request assigned to NERC (R03014) Status: Completed Based on the SRS review of related documents and EC updates to the WEQ Annual Plan in May 2004 where R03014 was noted as completed the SRS approved a "no action" recommendation to close out this standards request.	3rd Q, 2008	SRS
2	**Develop business practice standards in support of the FERC RM05-25-000 and RM05-17-000 (OATT Reform)**		
a)	Develop version 2 business practice standards to better coordinate the use of the transmission system among neighboring transmission providers. Such business practice standards would be based on recommendations from NERC's Long Term ATC/AFC Task Force and would involve revised procedures for the ATC calculation and/or revised protocols as determined by the final order. Status: Underway Development is using joint standards development process with NERC. Request R050004 was expanded to include the Order No. 890 (Docket Nos. RM05-25-000 and RM05-17-000) and Order No. 890-A (Docket Nos. RM05-17-001, 002 and RM05-25-001, 002), "Preventing Undue Discrimination and Preference in Transmission Services", issued April 11, 2007).		
i)	Group 1: Conditional Firm, Annotations For ATC; Load Forecast And Actual Load; Re-Bid Of Partial Service; And Preconfirmation Priority		
1.	Conditional Firm, Annotations For ATC; Load Forecast And Actual Load; Re-Bid Of Partial Service; And Preconfirmation Priority S&CP Requirements Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	4th Q, 2007	ESS/ITS

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

[6] Joint Development Procedure is to be used by the NERC TLR Drafting Team and NAESB BPS.

NORTH AMERICAN ENERGY STANDARDS BOARD

2008 WEQ Annual Plan Approved by the Board of Directors on December 18, 2008

		Item Description	Completion[1]	Assignment[2]
	2.	Conditional Firm Business Practice Standards associated with S&CP Requirements completed in 2(a)(i)(1) Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	3rd Q, 2008	ESS/ITS
	3.	Annotations For ATC Business Practice Standards associated with S&CP Requirements completed in 2(a)(i)(1) Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	1st Q, 2008	BPS, ESS/ITS
	4.	Load Forecast And Actual Load Business Practice Standards associated with S&CP Requirements completed in 2(a)(i)(1) Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	1st Q, 2008	BPS, ESS/ITS
	5.	Re-Bid Of Partial Service Business Practice Standards on a Single Transmission Provider's System associated with S&CP Requirements completed in 2(a)(i)(1) Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	1st Q, 2008	ESS/ITS
	6.	Preconfirmation Priority Business Practice Standards associated with S&CP Requirements completed in 2(a)(i)(1) Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	1st Q, 2008	ESS/ITS
	7.	OASIS Exemptions Appendix Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	4th Q, 2007	ESS/ITS
ii)		Group 2: Metrics; Redispatch Cost Posting		
	1.	Metrics Related to Provision of Transmission Service (Paragraph 413 of Order 890) Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	1st Q, 2008	ESS/ITS
	2.	Metrics Related to Performance of Transmission Studies (Paragraphs 1308 through 1317 of Order 890 Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	1st Q, 2008	ESS/ITS

NORTH AMERICAN ENERGY STANDARDS BOARD

2008 WEQ Annual Plan Approved by the Board of Directors on December 18, 2008

	Item Description	Completion[1]	Assignment[2]
	3. Redispatch Cost Posting • Monthly average cost of redispatch • A high and low redispatch for the month Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	1st Q, 2008	ESS/ITS
iii)	Group 3: Network Service On OASIS		
	1. Use of OASIS to Make Electronic Requests to Designate and Terminate Network Resource Status: Underway	1St Q, 2009	ESS/ITS
	2. Ability to Query Requests to Designate and Terminate Network Resources and Allow for Queries of All Information Provided with Designation Requests Status: Underway	1St Q, 2009	ESS/ITS
	3. Masking of Designated Network Resource Operating Restrictions and Generating Cost Information Status: Underway	1St Q, 2009	ESS/ITS
	4. Procedural Requirements for Submitting Designations over new OASIS Functionality Status: Underway	1St Q, 2009	ESS/ITS
	5. Specify How Designated Network Service Informational Postings are Posted on OASIS Status: Underway	1St Q, 2009	ESS/ITS
	6. Set Forth the Treatment of OASIS Requests when the Customer Fails to Provide the Necessary Attestation Status: Underway	1St Q, 2009	ESS/ITS
	7. Procedural Requirements for Submitting Both Temporary and Indefinite Terminations of Network Resources Status: Underway	1St Q, 2009	ESS/ITS
	8. Procedures for Submitting and Processing Requests for Concomitant Evaluations of Transmission Requests and Temporary Terminations Status: Underway	1St Q, 2009	ESS/ITS
iv)	Group 4: Pre-Emption; Request No. R05019; and Revisions to Standard 9.7		
	1. Pre-Emption Status: Not Started	2nd Q, 2009	ESS/ITS
	2. Request No. R05019 Status: Not Started	2nd Q, 2009	ESS/ITS

NORTH AMERICAN ENERGY STANDARDS BOARD

2008 WEQ Annual Plan Approved by the Board of Directors on December 18, 2008

Item Description	Completion[1]	Assignment[2]
3. Revisions to Standard 9.7 Status: Underway This item also addresses work in 2006 WEQ AP 3a(x).	2009	EC Task Force
4. Posting of Existing Transmission Commitments (ETC) (moved from Group 1) Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	2nd Q, 2008	BPS, ESS/ITS
v) Group 5: Paragraph 1377		
1. Paragraph 1377 Status: Not Started	2nd Q, 2009	ESS/ITS
2. Re-Bid Of Partial Service across Multiple Transmission Providers' Systems Status: Not Started	2nd Q, 2009	ESS/ITS
vi) Group 6: Miscellaneous (Paragraphs 1390 and 1627 of Order 890)		
1. Paragraph 1390 of Order 890 Status: Not Started	2nd Q, 2009	ESS/ITS
2. Paragraphs 1627 of Order 890 Status: Not Started	2nd Q, 2009	ESS/ITS
3. Redispatch Cost Posting to allow for posting of third party offers of planning redispatch services. Status: Not Started	2nd Q, 2009	ESS/ITS
4. Posting of **Existing Transmission Commitments (ETC)** (moved from Group 1) Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	2nd Q, 2008	ESS/ITS
vii) Group 7: Tagging for Conditional Firm Service		
1. Tagging for Conditional Firm Service Status: Completed Published Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	2nd Q, 2008	ESS/ITS
b) Develop the needed business practices as companion to the NERC standards for ATC related efforts.[7]		
i) Develop standards to support existing Request No. R05004.		

[7] The June 1, 2008 dates included in this Annual Plan Item are assigned as a result of FERC extending deadlines to both NERC and NAESB on ATC related Order No. 890 items.

NORTH AMERICAN ENERGY STANDARDS BOARD

2008 WEQ Annual Plan Approved by the Board of Directors on December 18, 2008

	Item Description	Completion[1]	Assignment[2]
	1. The processing of transmission service requests, which use TTC/ATC/AFC, in coordination with NERC changes to MOD 001 where the allocation of flowgate capability based on historical Network Native Load impacts the evaluation of transmission service requests, requiring the posting of those allocation values in conjunction with queries of service offerings on OASIS Status: Underway	1St Q, 2009	ESS/ITS
	2. Remaining requirements documented in R05004 and R05004A. Status: Completed	3rd Q, 2008	BPS, ESS/ITS
ii)	Develop Business Practice Standards for **Existing Transmission Commitments (ETC)**		
	1. Develop the Business Practice Standards complementary to NERC Reliability Standards for **Existing Transmission Commitments (ETC)** to create a "consistent approach for determining the amount of transfer capability a transmission provider may set aside for its native load and other committed uses", including the elements of ETC for full implementation of the NERC MOD-001 reliability standard. The business practices developed to address this item will require to coordination with the NERC Order 890 reliability standards development. Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	2nd Q, 2008	BPS, ESS/ITS
	2. Business practice standards for accounting for counterflows. These standards will be included in the ATC business practice standards. The business practices developed to address this item will require to coordination with the NERC Order 890 reliability standards development. Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	June 1, 2008	BPS ESS/ITS
iii)	**Capacity Benefit Margin (CBM) Business Practices**		
	1. Determine if business practice standards are needed, and if so, develop them to set forth "how the CBM value shall be determined, allocated across transmission paths, and used" and how transmission providers will "reflect the set-aside of transfer capability as CBM in the development of the rate for point-to-point transmission service." The business practices developed to address this item will require to coordination with the NERC Order 890 reliability standards development. Status: Completed The NAESB subcommittees have determined the CBM requirements have been documented in the NERC MOD-004 to address this item, so no further action is required by NAESB. Please note that when the related NERC reliability standards are adopted, the subcommittee leadership will review to determine if additional action by NAESB is needed.	3rd Q, 2008	BPS, ESS/ITS

NORTH AMERICAN ENERGY STANDARDS BOARD

2008 WEQ Annual Plan Approved by the Board of Directors on December 18, 2008

	Item Description	Completion[1]	Assignment[2]
	2. Business practice standards that include an OASIS mechanism to "allow for auditing of CBM usage." The business practices developed to address this item will require to coordination with the NERC Order 890 reliability standards development. Status: Completed	3rd Q, 2008	BPS, ESS/ITS
	3. Any additional business practice standards needed to complement the NERC CBM reliability standards (MOD004) created as a result of this effort. The business practices developed to address this item will require to coordination with the NERC Order 890 reliability standards development. Status: Completed	3rd Q, 2008	BPS, ESS/ITS
iv)	**Transmission Reliability Margin Business Practices:**		
	1. Transmission Reliability Margin (TRM): Business Practice Standards to complement the NERC reliability standards for TRM. The business practices developed to address this item will require to coordination with the NERC Order 890 reliability standards development. Status: Completed The NAESB subcommittees have determined TRM requirements have been documented in previously submitted recommendations, so no further action is required by NAESB.	April 8, 2008	BPS, ESS/ITS
	2. The business practice standards will include specification of the appropriate uses of TRM and when transmission providers may set aside TRM. The business practices developed to address this item will require to coordination with the NERC Order 890 reliability standards development Status: Completed The NAESB subcommittees have determined TRM requirements have been documented in previously submitted recommendations, so no further action is required by NAESB.	April 8, 2008	BPS, ESS/ITS
	3. Any additional business practice standards needed to complement the NERC TRM reliability standards (MOD008) created as a result of this effort. The business practices developed to address this item will require to coordination with the NERC Order 890 reliability standards development. Status: Completed The NAESB subcommittees have determined TRM requirements have been documented in previously submitted recommendations, so no further action is required by NAESB.	April 8, 2008	BPS, ESS/ITS

NORTH AMERICAN ENERGY STANDARDS BOARD

2008 WEQ Annual Plan Approved by the Board of Directors on December 18, 2008

	Item Description	Completion[1]	Assignment[2]
v)	Business Practice Standards for ATC and AFC Calculation Methodologies to complement the NERC reliability standards created for ATC and AFC Methodologies (NERC MOD001 (Available Transfer Capability); NERC MOD028 (Network Response Available Transfer Capability); NERC MOD029 (Rated System Path Available Transfer Capability); and NERC MOD030 (Flowgate Network Response Available Transfer Capability)):		
	1. Business practice standards to address the frequency and posting requirements for all ATC components that are complementary to the related NERC reliability standards. The business practices developed to address this item will require to coordination with the NERC Order 890 reliability standards development. Status: Completed The subcommittee determined no additional standards are required from what is already documented in the "ATC Information Link (2008 Annual Plan 2.b.vii)" recommendation and what is required for ATC postings under the previously ratified recommendation "Modifications to WEQ-001 to comply with modifications to 18 C.F.R. 37.6 and 37.7 within Order 890 with Minor Corrections applied on February 27, 2008."	April 23, 2008	BPS/ESS/ITS
	2. Business practice standards for data exchange for ATC modeling complementary to the related NERC reliability standards including any OASIS posting requirements to achieve the data exchange. The business practices developed to address this item will require to coordination with the NERC Order 890 reliability standards development. Status: Completed The NAESB subcommittees have determined the data exchange requirements have already been documented in the NERC standards, so no further action is required by NAESB.	1st Q, 2008	BPS/ESS/ITS
	3. Business practice standards that will set forth how transmission providers will post "explanations of the reason for a change in monthly and yearly ATC values on a constrained path." The standards will include a requirement that that the transmission provider posts the reason for the change in a narrative form. The posted information will include "the (1) specific events which gave rise to the change and (2) new values for ATC on that path (as opposed to all points on the network)." The business practices developed to address this item will not require to coordination with the NERC Order 890 reliability standards development. Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	1st Q, 2008	BPS/ESS/ITS
	4. Business practice standards for posting on OASIS of the "underlying load forecast assumptions for all ATC calculations". The business practices developed to address this item will not require to coordination with the NERC Order 890 reliability standards development Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	1st Q, 2008	BPS/ESS/ITS

NORTH AMERICAN ENERGY STANDARDS BOARD

2008 WEQ Annual Plan Approved by the Board of Directors on December 18, 2008

		Item Description	Completion[1]	Assignment[2]
		5. Business practice standards for posting on OASIS of the "actual daily peak load for the prior day." The business practices developed to address this item will not require to coordination with the NERC Order 890 reliability standards development Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	1st Q, 2008	BPS/ESS/ITS
	vi)	Business practice standards to complement NERC reliability standards for Transfer Capability in response to new NERC Supplemental SAR: Revisions to Existing Standards MOD001-MOD009, FAC12-13 This item was added as a result of the Supplemental SAR NERC created in case additional business practices are needed as a result of the work on this SAR by NERC. It does not have a cite in Order 890. This item will require coordination with the NERC Order 890 reliability standards development. Status: Completed	May 1, 2008	BPS, ESS/ITS
	vii)	Business practice standards to set forth the procedure for input on TTC and ATC methodologies and values. (During the Order 890 NERC and NAESB joint standards development effort, it was determined that the standards contained in MOD003 should be business practice standards instead of reliability standards. NERC has requested that NAESB adopt the standards as business practices via correspondence to Ms. McQuade, NAESB President.) This item will require coordination with the NERC Order 890 reliability standards development because the language to address this item is contained within a draft standards that addresses items that are dependent on NERC deliverables, i.e., the requirements to create an "ATC Information Link" on OASIS. There is no Order 890 cite for this item. Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	1st Q, 2008	BPS, ESS/ITS
	c)	Develop version 1 business practice standards to support transparency reporting and related functions that may be required as a result of the final order. Status: Completed The Executive Committee did not approve the recommendation submitted by the EC Task Force. Instead, they approved a "No Action" Recommendation for this annual plan item at their October 6, 2008 meeting	3rd Q 2008	EC Task Force
3		**Develop business practices standards to improve the current operation of the wholesale electricity market and develop and maintain business practice and communication standards for OASIS and Electronic Scheduling**		
	a)	Develop and/or maintain business practice standards as needed for OASIS and electronic scheduling. Specific items to address include:		
		i) Develop OASIS S&CP changes to support OASIS business practices. Status: Completed Dependent on development of OASIS business practices	3rd Q 2008	ESS/ITS

NORTH AMERICAN ENERGY STANDARDS BOARD

2008 WEQ Annual Plan Approved by the Board of Directors on December 18, 2008

	Item Description	Completion[1]	Assignment[2]
ii)	Network Services: Determine and develop needed business practice standards or other support is needed to support use of OASIS for Network Service transactions (R04006E). (Related to AP 2(a)(iii)) Status: Underway	1st Q, 2009	ESS/ITS
iii)	Registry (TSIN): Determine and develop needed business practice standards to support the registry functions currently supported by NERC (R04037, R06027). Status: Underway		
	1) Work with the NAESB counsel to develop a confidentiality agreement, (R07013)	2009	BPS
	2) Transition the TSIN Registry from NERC to NAESB.	2009	NAESB Staff
	3) Review and correct the Coordinate interchange Business Practice Standard as noted during the development of the e-Tag 1.8 development process.	3rd Q, 2009	JISWG
v)	Document procedures used to implement the displacement/interruption terms of the Pro Forma tariff (R05019). Status: Not Started	3rd Q, 2009	ESS/ITS
vi)	Make incremental enhancements to OASIS as an outgrowth of the NAESB March 29, 2005 conference on the future of OASIS (R05026). Scoping statement completed by SRS and assignments made to BPS, ESS/ITS and JISWG.		
	1) Represent ALL pre-Order 888 ("grandfathered") transmission and ancillary services in current use in OASIS Status: Completed	3rd Q, 2008	BPS, ESS/ITS
	2) Eliminate Masking of TSR tag source and sink when requested status is denied, withdrawn refused, displaced, invalid, declined, annulled or retracted Status: Not Started	3rd Q, 2009	ESS/ITS
	3) Initiate standard that requires ALL historical transmission service reservations to be available for review up to a number of years in the past. Status: Completed	3rd Q, 2008	ESS/ITS
	4) Initiate standard that eliminates the disparity of posting "sensitive" information. This standard should also include procedures of user certification that allows access to this class of information. Status: Not Started	2009	ESS/ITS
	5) Enhance the TSR result postings to allow showing of (i) limiting transmission elements and (ii) available generation dispatch options that would allow acceptance of reservation request. Status: Not Started	2009	ESS/ITS

NORTH AMERICAN ENERGY STANDARDS BOARD

2008 WEQ Annual Plan Approved by the Board of Directors on December 18, 2008

		Item Description	Completion[1]	Assignment[2]
	6)	Standardize the availability of TSR study result postings, eliminating practice of some Transmission Owners that charge for viewing these documents. Status: Completed This item was completed with Recommendation (2008 AP Item 2.a.i.5, 2008 AP Item 2.a.i.6, and 2008 AP Items 2.a.ii.1-3) WEQ-001 Changes for Rebid of Partial Service, Preconfirmation Priority, and Group 2: Metrics; Redispatch Cost Posting.	1st Q, 2008	ESS/ITS
vii)		Respond to issues in FERC Order No. 676 (Docket No. RM05-5-000) – NAESB WEQ Standards 001 9.7, (paragraph 51 of the order). Status: Underway Item was assigned to group 4, reference 2007 WEQ AP item 2(a)(iv)(3).	2009	EC Task Force
b)		Develop and/or maintain standard communication protocols and cyber-security business practices as needed.		
i)		Address the surety assessment findings on NAESB PKI standards. Status: Completed Item will be provided as a response to the U.S. DoE upon completion by the WGQ for their response to the findings.	1st Q, 2008	JISWG
ii)		Develop PKI standards for OASIS. Status: Not Started	2009	ESS/ITS
iii)		Develop PKI Standards for e-tagging (Develop Implementation Plan). Status: Underway eTagging items are linked to the transition of the Registry from NERC to NAESB.	2nd Q 2009	JISWG
iv)		Develop enhanced Electric Industry Registry (EIR), (R06027) Status: Underway	2009	NAESB Staff
c)		Develop needed business practice standards for organization/company codes for NAESB standards – and address current issues on the use of DUNs numbers. Status: Underway Common code usage is linked to the transition of the Registry from NERC to NAESB.	2009	NAESB Staff with WEQ support
d)		Develop business practice standards in support of FERC Order 717 Status: Not Started	2nd Q, 2009	ESS/ITS
4		**Review and develop business practices standards to support e-Tariff program**		
		Develop business practices as needed to support the e-Tariff program including submittal of tariffs and metadata. (Docket No RM05-1-000) Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	1st Q, 2008	Joint WEQ/WGQ e-Tariff Subcommittee

NORTH AMERICAN ENERGY STANDARDS BOARD

2008 WEQ Annual Plan Approved by the Board of Directors on December 18, 2008

	Item Description	Completion[1]	Assignment[2]
5	**Review and develop business practices standards to Demand Response, Demand Side Management and Energy Efficiency Programs** Review and develop needed model business practices for a standardized method for quantifying benefits, savings, cost avoidance and/or the reduction in energy demand and usage derived from the implementation of demand side management and energy efficiency programs. This effort will include demand side response, energy efficiency programs and metering, including the 'curtailment service provider' program.		
a)	Develop matrix and business practice standards for measurement and verification for demand response programs in ISO/RTO footprint areas. Status: Completed	4th Q, 2008	Joint WEQ/Retail DSM-EE Subcommittee
b)	Develop matrix and business practice standards for measurement and verification for demand response programs in non-ISO/RTO footprint areas. Status: Underway	TBD	Joint WEQ/Retail DSM-EE Subcommittee
c)	Develop preamble for business practice standards for measurement and verification for demand response and energy efficiency programs. Status: Underway	2009	Joint WEQ/Retail DSM-EE Subcommittee
d)	Develop glossary for business practice standards Status: Underway	2009	Joint WEQ/Retail DSM-EE Subcommittee
e)	Support retail development of matrix and model business practice standards for measurement and verification for demand response programs Status: Underway	2009	Joint WEQ/Retail DSM-EE Subcommittee
f)	Develop business practice standards to measure and verify energy reductions that are made to comply with a Renewable Portfolio Standard that included energy efficiency or a stand-alone Energy Efficiency Portfolio Standard. Status: Not Started	Phase 2	Joint WEQ/Retail DSM-EE Subcommittee
g)	Develop business practice standards to factor Demand Control and Energy Efficiency programs into reliability / supply decisions at the wholesale level for generation and transmission planning and operations. Status: Not Started	Phase 2	Joint WEQ/Retail DSM-EE Subcommittee
h)	Develop business practice standards for cap and trade programs for green house gas Status: Not Started	Phase 2	Joint WEQ/Retail DSM-EE Subcommittee
6	**Maintain existing body of Version 1 standards**		
a)	Review/revise WEQ 006 to remove/revise mandatory requirements for Interconnection Time Monitor (R07019) Status: Completed Published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	2nd Q, 2008	BPS

NORTH AMERICAN ENERGY STANDARDS BOARD

2008 WEQ Annual Plan Approved by the Board of Directors on December 18, 2008

	Item Description	Completion[1]	Assignment[2]
b)	Develop a NAESB time and inadvertent management business practice that provides additional inadvertent payback options and improved time control (R07020) Status: Complete	3rd Q, 2008	BPS
c)	Make consistency changes to Version 1.0 standards as directed by the WEQ Leadership Committee on December 12, 2007 (R08001 – BPS, ESS/ITS, R08002 - ESS/ITS, R08003 - ESS/ITS - BPS, R08004, R08005 - ESS/ITS)		
	1) OASIS Consistency Changes (R08001, R08002, R08003, R08005) Status: Not Started	2009	ESS/ITS
	2) Gas / Electric Communication Consistency Changes (R08004) Status: Underway	2009	BPS
d)	Modify WEQ-001 to reflect in the definition of certain ancillary services that such ancillary services may be provided by non-generation resources such as demand resources. (http://www.naesb.org/pdf3/weq_ec051308w2.doc) Status: Completed To be published in Version 002, September 30, 2008 and forwarded to the FERC as part of the Version 002 filing, August 29, 2008.	July 2008	BPS, ESS/ITS
e)	Modify NAESB definitions to address internal inconsistencies and inconsistencies with the NERC glossary, (http://www.naesb.org/pdf3/weq_ec051308w3.doc) Status: Underway Subcommittee co-chairs are developing WEQ-000 Definition of Terms/Acronyms to replace definitions being included in each NAESB Business Practice.	1st Q, 2009	BPS, SRS, ESS/ITS
f)	Review and evaluate whether to cutoff or put a size limit on the entities for which the standards apply Status: Completed After review of FERC Order 676, the subcommittee determined this annual plan item was outside of NAESB's scope. Waivers for standards based on an entity's size should be addressed by FERC rather than through standards at NAESB.	3rd Q, 2008	SRS
g)	Investigate and review possible modifications to the WGQ Intraday Nominations, Confirmation Scheduling, and Gas Day standards, including possible standards for coordination of wholesale electric and wholesale gas scheduling. (R03031, R03031 revised, Interim Report, Final Report) Status: Completed The subcommittee reviewed the standards request and documentation developed by the Gas Electric Coordination Task Force and determined no additional work was required. The subcommittee approved a "no action" recommendation to close out this standards request.	3rd Q, 2008	SRS
h)	Develop standards to allow for registered Market Operators to request changes to the Market Level profile of Implemented Interchange (R06006) Status: Underway This request may be more of a clean-up in nature as it was requested in May 2006 but has not been addressed or presented as completed with the requisite documentation.	1st Q 2009	JISWG

NORTH AMERICAN ENERGY STANDARDS BOARD

2008 WEQ Annual Plan Approved by the Board of Directors on December 18, 2008

	Item Description	Completion[1]	Assignment[2]
i)	Modify the timing chart for the Western Interconnection in WEQBPS-006 to an initiation of manual time error at +/-5 seconds. (R06010) Status: Completed The BPS developed a No Action recommendation for this request since the scope of the request had been addressed through a minor correction in 3rd Quarter 2006.	3rd Q, 2008	BPS
j)	Develop a standard mechanism to implement a "RECALL" of transmission capacity from an existing confirmed transmission service reservation/Specify the technical requirements for implementation of a new OASIS request type, RECALL. (R07001) Status: Completed This request was originally assigned to the ESS/ITS in February 2007.	3rd Q, 2008	ESS/ITS
k)	Clarify the S&CP implementation of the DEFERRAL request. (R07003) Status: Completed This request was originally assigned to the ESS/ITS in February 2007.	3rd Q, 2008	ESS/ITS
l)	Develop business practice and technical standards for assigning, tracking, and limiting rollover rights. (R07004) Status: Completed This Standards Request was assigned to the ESS/ITS in February 2007.	3rd Q, 2008	ESS/ITS
m)	Update the Timing Table to Reflect the Categories (On-time, Late, After-the-fact, and Pre-late) used in the latest E-Tag Specification with respect to receipt of an Arranged Interchange (RFI). (R07007) Status: Completed	4th Q, 2008	JISWG
n)	Consistent with ¶51 of FERC Order No. 890-A, add AFC and TFC values to the "System_Attribute" data element of the NAESB Standard WEQ-003: OASIS S&CP Data Dictionaries. (R08011) Status: Not Started This Standards Request was assigned to the ESS/ITS in May 2008.	2009	ESS/ITS
o)	Provide for Enhanced Granularity for Public Utilities in Identifying Critical Operational Flow Orders. (R08020) Status: Not Started. This Standards Request was assigned to the BPS in August 2008.	2009	BPS jointly with WGQ BPS

NORTH AMERICAN ENERGY STANDARDS BOARD

2008 WEQ Annual Plan Approved by the Board of Directors on October 20, 2008

Reviewed by Subcommittee, Working Group, and Task Force Co-Chairs as of November 14, 2008

PROVISIONAL ITEMS

1 Develop and or modify business practices related to support of NERC effort on the NERC Resources and Transmission Adequacy and Inadvertent Interchange Data Standards BAL-006 revisions.

Status: In review of the NERC development effort, Balancing Authority Controls (Project 2007-05), with Mr. Akens (TVA, NERC Drafting Team Leader) and Mr. Rodriquez (NERC Manager, Business Practice Coordination), it was determined that no changes would be required to NAESB standards. As such, NAESB leadership is not at this time determining if any development would be undertaken, which would then initiate a joint development effort. A letter to this effect was sent to NERC management. This assessment may however change as the NERC drafting team proceeds further in its development, so the provisional item remains on the 2008 WEQ Annual Plan.

2 Develop business practice standards as requested by the regional and state advisory groups.

3 Develop business practice standards as related to the Effectiveness Study of Competitive Wholesale Markets (Congressional Mandate), Electric Energy Market Competition Task Force, Docket No. AD05-17-000, issued by the FERC on October 13, 2005.

4 Develop and/or maintain business practice standards to support gas-electric interdependencies

- Respond to requests as received that are related to Docket No. RM05-28-000.
- Respond directives related to the conclusions of the NAESB reports submitted in FERC Order No. 698, Docket Nos. RM05-5-001 and RM96-1-027.

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

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

NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WEQ Annual Plan Approved by the Board of Directors on March 26, 2009

	Item Description	Completion[1]	Assignment[2]
1	**Develop business practices standards as needed to complement reliability standards**		
	Develop business practice standards to support and complement NERC reliability standards, NERC policies and NERC standards authorization requests (SARs) using the NERC/NAESB Coordination Joint Standards Development Process as appropriate. Current NAESB activities underway to develop business practice standards that are supportive of this annual plan item are:		
a)	Develop business practices to support Coordinate Interchange – R05020 "Include a guideline for rounding schedules with partial MWh's in the coordinate interchange business practice WEQ BPS-002-000" the rounding standard recommendation Status: Underway	3rd Q, 2009	JISWG
b)	Continuous support of TLR Procedure in alignment with NERC efforts on TLR Phase II and Phase III development.		
i)	Parallel Flow Visualization/Mitigation for Reliability Coordinators in the Eastern Interconnection. Note: Activity is dependent on NERC approval of SAR expected in 2nd Q, 2009. Upon approval of the SAR and NAESB action on this item, consideration should be given to provisional item 4. Status: Not Started	4th Q, 2009	BPS
ii)	Update WEQ-008 Appendix D to include the Market Flow Threshold Percentage recommended by NERC working group/task force Status: Not Started (dependent on successful field test - expected Oct. 2009) Upon receipt of recommendation, completion date may be adjusted.	4th Q, 2009	BPS
c)	Conduct analysis as to whether standards can be developed which outline a standardized process for the coordination and execution of emergency energy schedules. These would be complementary standards to EOP-002-2 Requirements R4 and R6 (SRS Analysis of EOP-002-2 R4 & R6) Status: Completed and as a result item (3)(a)(viii) has been added to the plan	1st Q, 2009	JISWG
d)	Time Error and Inadvertent (BAL-004 and BAL-006) Coordination with NERC Status: Not Started (Upon initiation of this item by NAESB. a completion date will be determined. The date of 2011 is based on a completion date provided in the NERC BAC project schedule which includes extensive field testing and diverse proposed TIMTF directions to be reconciled in subcommittee meetings.)	2011	TIMTF
e)	DCS and AGC (BAL-002 and BAL-005) Coordination with NERC Status Not Started (Upon initiation of this item by NAESB. a completion date will be determined. The date of 2011 is based on a completion date provided in the NERC BAC project schedule which includes extensive field testing and diverse proposed TIMTF directions to be reconciled in subcommittee meetings.)	2011	TIMTF

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

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

NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WEQ Annual Plan Approved by the Board of Directors on March 26, 2009

	Item Description	Completion[1]	Assignment[2]
2	**Develop business practice standards in support of the FERC RM05-25-000 and RM05-17-000 (OATT Reform)**		
a)	Develop version 2 business practice standards to better coordinate the use of the transmission system among neighboring transmission providers. Such business practice standards would be based on recommendations from NERC's Long Term ATC/AFC Task Force and would involve revised procedures for the ATC calculation and/or revised protocols as determined by the final order.		
	Status: Underway		
	Development is using joint standards development process with NERC. Request R050004 was expanded to include the Order No. 890 (Docket Nos. RM05-25-000 and RM05-17-000) and Order No. 890-A (Docket Nos. RM05-17-001, 002 and RM05-25-001, 002), "Preventing Undue Discrimination and Preference in Transmission Services", issued April 11, 2007).		
i)	Group 3: Network Service On OASIS		
9.	Use of OASIS to Make Electronic Requests to Designate and Terminate Network Resource	3rd Q, 2009	ESS/ITS
	Status: Underway		
10.	Ability to Query Requests to Designate and Terminate Network Resources and Allow for Queries of All Information Provided with Designation Requests	3rd Q, 2009	ESS/ITS
	Status: Underway		
11.	Masking of Designated Network Resource Operating Restrictions and Generating Cost Information	3rd Q, 2009	ESS/ITS
	Status: Underway		
12.	Procedural Requirements for Submitting Designations over new OASIS Functionality	3rd Q, 2009	ESS/ITS
	Status: Underway		
13.	Specify How Designated Network Service Informational Postings are Posted on OASIS	3rd Q, 2009	ESS/ITS
	Status: Underway		
14.	Develop standards for the treatment of OASIS Requests when the Customer Fails to Provide the Necessary Attestation	3rd Q, 2009	ESS/ITS
	Status: Underway		
15.	Procedural Requirements for Submitting Both Temporary and Indefinite Terminations of Network Resources	3rd Q, 2009	ESS/ITS
	Status: Underway		
16.	Procedures for Submitting and Processing Requests for Concomitant Evaluations of Transmission Requests and Temporary Terminations	3rd Q, 2009	ESS/ITS
	Status: Underway		

NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WEQ Annual Plan Approved by the Board of Directors on March 26, 2009

Item Description	Completion[1]	Assignment[2]
ii) Group 4: Pre-Emption; Request No. R05019; and Revisions to Standard 9.7		
5. Pre-Emption Status: Not Started	4th Q, 2009	ESS/ITS
6. Request No. R05019 Status: Not Started	4th Q, 2009	ESS/ITS
7. Modify WEQ-001-9.7 Rollover Rights for Redirect on a Firm Basis Status: Underway	2nd Q, 2009	ESS/ITS
iii) Group 5: Paragraph 1377		
3. Paragraph 1377 Status: Not Started	4th Q, 2009	ESS/ITS
4. Re-Bid Of Partial Service across Multiple Transmission Providers' Systems Status: Not Started	4th Q, 2009	ESS/ITS
iv) Group 6: Miscellaneous (Paragraphs 1390 and 1627 of Order 890)		
5. Paragraph 1390 of Order 890 Status: Not Started	4th Q, 2009	ESS/ITS
6. Paragraphs 1627 of Order 890 Status: Not Started	4th Q, 2009	ESS/ITS
7. Redispatch Cost Posting to allow for posting of third party offers of planning redispatch services. Status: Not Started	4th Q, 2009	ESS/ITS
b) Develop the needed business practices as companion to the NERC standards for ATC related efforts		
i) Develop standards to support existing Request No. R05004.		
1. The processing of transmission service requests, which use TTC/ATC/AFC, in coordination with NERC changes to MOD 001 where the allocation of flowgate capability based on historical Network Native Load impacts the evaluation of transmission service requests, requiring the posting of those allocation values in conjunction with queries of service offerings on OASIS Status: Underway	3rd Q, 2009	ESS/ITS
3 Develop business practices standards to improve the current operation of the wholesale electricity market and develop and maintain business practice and communication standards for OASIS and Electronic Scheduling		
a) Develop and/or maintain business practice standards as needed for OASIS and electronic scheduling. Specific items to address include:		
i) Network Services: Determine and develop needed business practice standards or other support is needed to support use of OASIS for Network Service transactions (R04006E). (Related to AP 2(a)(iii)) Status: Underway	3rd Q, 2009	ESS/ITS

NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WEQ Annual Plan Approved by the Board of Directors on March 26, 2009

	Item Description	Completion[1]	Assignment[2]
ii)	Registry (TSIN): Determine and develop needed business practice standards to support the registry functions currently supported by NERC (R04037, R06027).		
	1) Work with the NAESB counsel to develop a confidentiality agreement, (R07013) Status: Underway	3rd Q, 2009	JISWG
	2) Transition the TSIN Registry from NERC to NAESB as the enhanced Electric Industry Registry (EIR), (R06027). Status: Underway	4th Q, 2009	NAESB/NERC Administration, JISWG
iii)	Document procedures used to implement the displacement/interruption terms of the Pro Forma tariff (R05019). Status: Not Started	4th Q, 2009	ESS/ITS
iv)	Make remaining incremental enhancements to OASIS as an outgrowth of the NAESB March 29, 2005 conference on the future of OASIS (R05026). Scoping statement completed by SRS and assignments made to BPS and ESS/ITS.		
	1) Eliminate Masking of TSR tag source and sink when requested status is denied, withdrawn refused, displaced, invalid, declined, annulled or retracted Status: Not Started	4th Q, 2009	ESS/ITS
	2) Initiate standard that eliminates the disparity of posting "sensitive" information. This standard should also include procedures of user certification that allows access to this class of information. Status: Underway (upon further development of this item by NAESB, a completion date will be determined)	2010	ESS/ITS
	3) Enhance the TSR result postings to allow showing of (i) limiting transmission elements and (ii) available generation dispatch options that would allow acceptance of reservation request. Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2010	ESS/ITS
v)	Develop, coordinate inoperability testing, and implement e-Tag version 1.8.1 Status: Underway	4th Q, 2009	JISWG
vi)	Transition e-Tag Specification and schema to NAESB Status: Complete Version 1.8.1 will be identified as the NAESB Electronic Tagging Functional Specification	1st Q, 2009	JISWG
vii)	Review and correct the WEQ-004 Coordinate interchange Business Practice Standard as noted during the development of the e-Tag 1.8 development process. Status: Underway	3rd Q, 2009	JISWG

NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WEQ Annual Plan Approved by the Board of Directors on March 26, 2009

		Item Description	Completion[1]	Assignment[2]
	viii)	Review and correct WEQ-004 Coordinate Interchange Business Practice Standard as needed based on activities in NERC Project 2008-12, Coordinate Interchange Standards Revisions and supporting EOP-002-2 R4 and R6. [note: this is a new item] Status: Not started – dependent on NERC activity (upon initiation of this item by NAESB, a completion date will be determined)	2010	JISWG
b)		Develop and/or maintain standard communication protocols and cyber-security business practices as needed.		
	i)	Develop PKI certification program for e-Tag and OASIS Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2009	Board Cert. Prgm Comm
	ii)	Develop PKI standards for OASIS. Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2009	ESS/ITS
	iii)	Develop Industry Implementation Plan for meeting PKI Standard requirements for e-tagging. Status: Underway eTagging items are linked to the transition of the Registry from NERC to NAESB.	July, 2009	JISWG
c)		Develop needed business practice standards for organization/company codes for NAESB standards – and address current issues on the use of DUNs numbers. Status: Underway (upon further development of this item by NAESB, a completion date will be determined) Common code usage is linked to the transition of the Registry from NERC to NAESB	2009	NAESB Staff with WEQ support
d)		Develop business practice standards in support of FERC Order No. 717 Status: Complete	1st Q, 2009	BPS
4		**Review and develop business practices standards to Demand Response, Demand Side Management and Energy Efficiency Programs[3]** Review and develop needed model business practices for a standardized method for quantifying benefits, savings, cost avoidance and/or the reduction in energy demand and usage derived from the implementation of demand side management and energy efficiency programs. This effort will include demand side response, energy efficiency programs and metering, including the 'curtailment service provider' program.		
a)		Develop matrix and business practice standards for measurement and verification for demand response products and services in ISO/RTO footprint areas. Status: Completed *(see (b) below for completion of examples)*	4th Q, 2008	WEQ Section of the Joint WEQ/REQ DSM Subcommittee

[3] The Board of Directors has approved assigning 4(f), 4(g) and 4(h) to a separate subcommittee, not dependent on the completion of the efforts developing demand response M&V standards. As such these items can proceed independent of the demand response efforts.

NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WEQ Annual Plan Approved by the Board of Directors on March 26, 2009

	Item Description	Completion[1]	Assignment[2]
b)	Develop more detailed technical standards for the measurement and verification of demand response products and services in ISO-RTO footprint areas, including examples to be developed to support item 4(a) above. Status: Not Started (Scope to be initiated in 2nd Q, 2009, after which a completion date will be set) – *The first meeting is scheduled for April 16, 2009*	Phase 2	WEQ Section of the Joint WEQ/REQ DSM Subcommittee
c)	Develop preamble for business practice standards for measurement and verification for demand response and energy efficiency programs. Status: Underway	3rd Q, 2009	Joint WEQ/REQ DSM-EE Subcommittee
d)	Develop glossary for business practice standards Status: Underway	3rd Q, 2009	Joint WEQ/REQ DSM-EE Subcommittee
e)	Support retail development of matrix and model business practice standards for measurement and verification for demand response products and services Status: Underway	2nd Q, 2009	REQ Section of Joint WEQ/REQ DSM-EE Subcommittee
f)	Develop business practice standards to measure and verify energy reductions that are made to comply with a Renewable Portfolio Standard that included energy efficiency or a stand-alone Energy Efficiency Portfolio Standard. Status: Not Started (Scope to be initiated in 2nd Q, 2009, after which a completion date will be set)	Phase 2	WEQ Section/Joint WEQ/REQ DSM-EE Subcommittee
g)	Develop business practice standards to factor Demand Control and Energy Efficiency programs into reliability / supply decisions at the wholesale level for generation and transmission planning and operations in ISO/RTO footprint areas. Status: Not Started (Scope to be initiated in 2nd Q, 2009, after which a completion date will be set)	Phase 2	WEQ Section/Joint WEQ/REQ DSM-EE Subcommittee
h)	Develop business practice standards for cap and trade programs for green house gas Status: Not Started (Scope to be initiated in 2nd Q, 2009 at the earliest. Upon conclusion of the scoping statement it will be determined whether NAESB standards development is appropriate)	Phase 2	Joint WEQ/REQ DSM-EE Subcommittee
6	**Maintain existing body of Version 2 standards**		
a)	Make consistency changes to Version 1.0 standards as directed by the WEQ Leadership Committee on December 12, 2007 (R08001 – BPS, ESS/ITS, R08002 - ESS/ITS, R08003 - ESS/ITS - BPS, R08004, R08005 - ESS/ITS)		
1)	OASIS Consistency Changes (R08001, R08002, R08003, R08005) Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2009	ESS/ITS

NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WEQ Annual Plan Approved by the Board of Directors on March 26, 2009

	Item Description	Completion[1]	Assignment[2]
	2) Gas / Electric Communication Consistency Changes (R08004) Status: Underway	2nd Q, 2009	BPS
b)	Modify NAESB definitions to address internal inconsistencies and inconsistencies with the NERC glossary. Revise existing NAESB glossary/definition of terms to be applicable to entire set of WEQ Business Practices. (http://www.naesb.org/pdf3/weq_ec051308w3.doc) Status: Underway Subcommittee co-chairs are developing WEQ-000 Definition of Terms/Acronyms to replace definitions being included in each NAESB Business Practice.	2nd Q, 2009	BPS/ESS/ITS/SRS Co-chairs
c)	Develop standards to allow for registered Market Operators to request changes to the Market Level profile of Implemented Interchange (R06006) Status: Complete	1st Q, 2009	JISWG
d)	Consistent with ¶51 of FERC Order No. 890-A, add AFC and TFC values to the "System_Attribute" data element of the NAESB Standard WEQ-003: OASIS S&CP Data Dictionaries. (R08011) Status: Not Started This Standards Request was assigned to the ESS/ITS in May 2008.	3rd Q, 2009	ESS/ITS
e)	Provide for Enhanced Granularity for Public Utilities in Identifying Critical Operational Flow Orders. (R08020) Status: Not Started. This Standards Request was assigned to the BPS in August 2008 (upon initiation of this item by NAESB, a completion date will be determined)	2009	BPS jointly with WGQ BPS
f)	Synchronize Bidding Credit Requirements for FTR, TCC and CRR (R08025) Posting of collateral is an important issue for financial marketers. Most financial marketers and smaller entities are required to post cash for FTR transactions, while most utilities post unsecured credit. Therefore, the timing for posting collateral is especially crucial to financial marketers. There are two posting periods for FTRs: 1. The Bidding Requirement: Credit must be posted with FTR bids and these monies are held until bids are cleared. 2. The Holding Requirement: After bids are cleared and FTRs awarded, collateral is required for the amount of time the FTR is active. Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2009	SRS (Scoping)

PROVISIONAL ITEMS

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

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

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

4 Prepare recommendations for future path for TLR (equity concerns) in concert with NERC, which may include alternative congestion management procedures4. Work on this activity is dependent on completing 2009 WEQ Annual Plan 1.c.i (Parallel Flow Visualization/Mitigation for Reliability Coordinators in the Eastern Interconnection).

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

NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WEQ Annual Plan Approved by the Board of Directors on March 26, 2009

	Item Description	Completion[1]	Assignment[2]
5	Develop complementary standards that align with NERC Project 2008-01 Voltage and Reactive Control, for which a white paper is expected after the 2009 SAR is processed.		
6	Develop NAESB business practices as needed to complement NERC reliability standards for FAC-012 and FAC-013.		
7	Determine NAESB action needed to support FERC Action Plan for Smart Grid Technology.		

The NAESB Standards Development Process

NAESB is focused on proposing, considering, and adopting voluntary standards and model business practices that will have a significant and lasting impact on all aspects of the natural gas and electricity marketplaces. As a result of the standards NAESB adopts, it is expected that the industry will operate more efficiently and effectively, benefiting both the industry and its customers. At the same time, it must be acknowledged that NAESB standards may constitute a change in the way parties do business, with an accompanying effect on the use and allocation of resources.

NAESB's policy is to move at a deliberate pace, consistent with its annual plan(s), thus permitting those affected by its standards, especially those standards adopted as regulations by the Federal Energy Regulatory Commission (FERC) or other regulatory bodies, to assimilate them as part of their business practices. To this end, NAESB will carefully consider whether proposed standards are both timely and necessary. In particular, it will try to avoid adopting and implementing new standards, however beneficial, before the industry is able to reasonably make use of them.

The standards development process is governed by the annual plan, and items can be included in the plan or modified only with Board approval. The plan typically reflects requests from NAESB members, government agencies, and other interested parties. In approving the annual plan, the Board considers the availability of resources, including the NAESB budget and staff and the availability of industry volunteers. New requests received throughout the year are either considered part of the existing annual plan or as new items that require Board approval.

The standards development process begins with an annual plan item or a triaged and approved request. Triage is a process used by each quadrant of the Executive Committee (EC) to determine whether a request is within scope, which quadrant(s) it applies to, which subcommittee(s) it should be referred to, and what priority it should be assigned. Triage is carried out by EC members appointed by the EC chair. Triage recommendations are submitted to the en banc EC and require EC approval, and may also require Board approval if there are scope questions or if a modification of the annual plan is required.

Once the triage process is completed, the subcommittees—more than one are normally involved in standards recommendations—review the request, compare it to existing standards, and prepare recommendations that may take the form of new or modified standards or interpretations. Participation in EC subcommittees is open to any interested party regardless of membership status. All subcommittee participants may vote; voting is balanced by segment and quadrant. All votes are public.

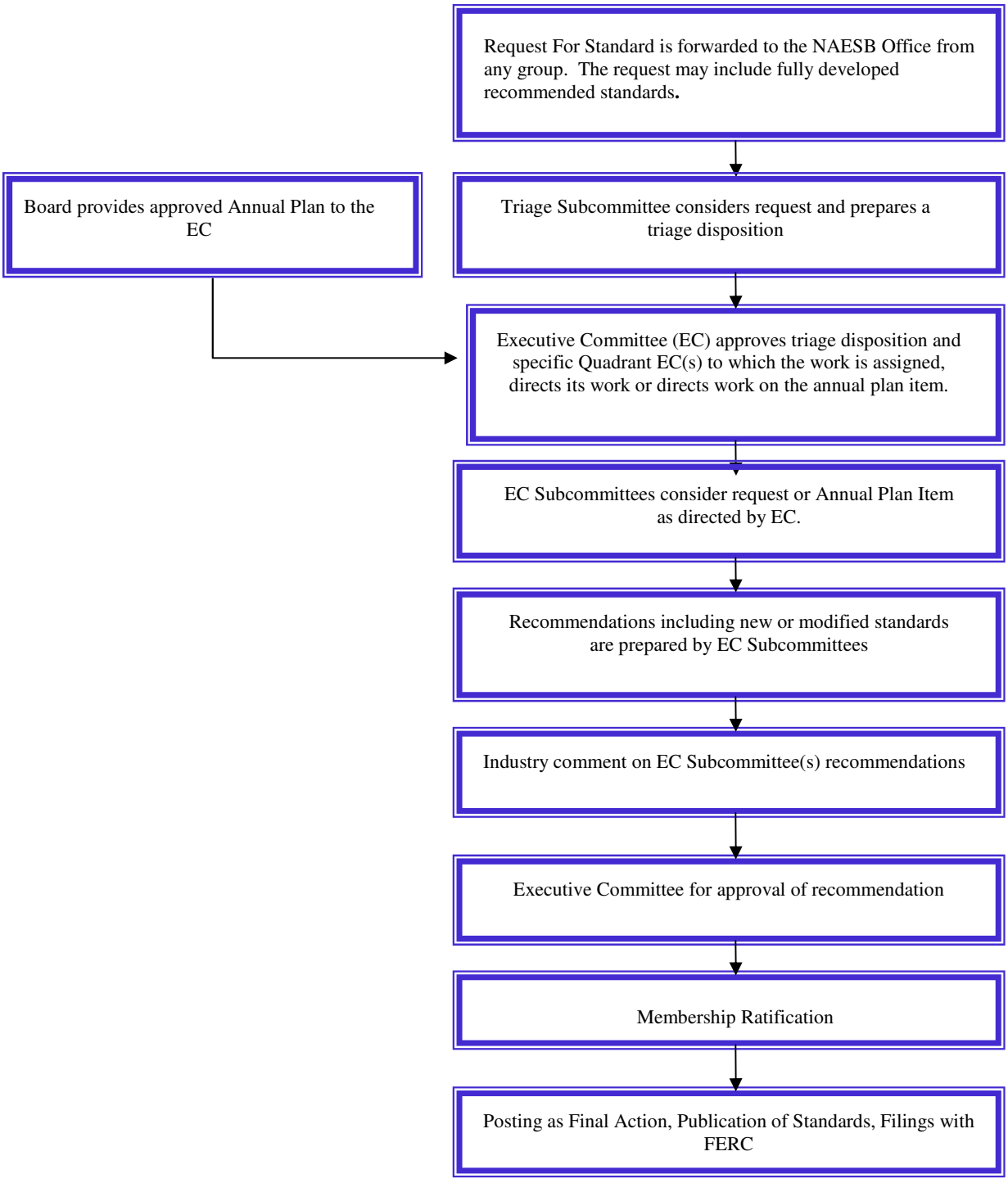
When the recommendation is complete, it is made available for a thirty-day industry comment period. The recommendation and comments are then forwarded to the EC, which considers the recommendation, makes any changes it deems necessary, and takes a vote. A recommendation must receive an affirmative vote of at least 67 percent from each applicable quadrant EC and 40 percent from each of the segments of the applicable quadrant(s).

After passage by the EC, the recommendation must be ratified by the NAESB members. An affirmative vote of 67 percent of the members of the applicable quadrant(s) is required for ratification. After ratification, standards and modifications are considered final actions and will be published in the next version of NAESB standards.

The foregoing process has been followed by the WGQ since 1994 and has been used to develop more than five hundred standards that have been incorporated by reference into federal regulations. The standards that apply to electronic delivery mechanisms have been endorsed by several state regulatory bodies and have also been adopted by the automotive, insurance, and health care industries.

The certificate, bylaws and NAESB Operating Procedures can be accessed from the NAESB web site (http://www.naesb.org/pdf/naesbcert050503.pdf – certificate, http://www.naesb.org/pdf/naesbbylaws.pdf – bylaws, http://www.naesb.org/pdf/operating_procedures.pdf - operating procedures), and provide much more detail on the standards development procedures followed by NAESB.

North American Energy Standards Board
Standards Development Process Flow Chart



Flexibility

NAESB recognizes that flexibility is necessary as standards are developed to address regional concerns or to incorporate variances to accommodate operational or structural differences. Several WEQ standards incorporate regional or operational differences for both Version 0 and

Version 1. There is a high threshold for incorporating such variances in a standard; the subcommittee(s) in drafting the standard, the EC in approving the subcommittee recommendation, and the membership in approving the standard must all agree that such variance is necessary. Nonetheless, NAESB procedures are well suited to take into account operational and regional differences.

Transparency

All NAESB meetings are open for attendance and participation by any interested party, with the exception of executive sessions of the Board or Managing Committee for purposes of discussing personnel, compensation or legal issues. Meeting announcements and agendas are posted in advance to permit the widest possible participation. Conference-calling capability is available for all meetings and web casting is available for most. Those intending to attend a meeting in person or by telephone are asked to notify NAESB by a specific date to permit adequate meeting planning.

Transcripts are made of all Board of Directors and EC meetings, and may also be made of other meetings that are expected to be controversial. Transcripts are maintained in the NAESB office and are provided to regulatory agencies for their internal use. All other interested parties can purchase transcripts from the relevant transcription service.

Coordination with NERC

For business practice standards development for the WEQ, if it is determined by NERC and NAESB Executive Management that joint development is needed by NERC and NAESB, the NERC-NAESB Coordination Joint Development Process is implemented.[1] This process requires that the appropriate NAESB Subcommittee and NERC Standards Drafting Team work together to develop reliability standards and business practices. This process is currently being implemented by the NAESB WEQ BPS and ESS/ITS with the NERC ATC Standards Drafting Team to develop reliability standards and business practice standards to address Commission Order No. 890.

The Joint Interface Committee of NAESB, NERC and the ISO-RTO Council ("JIC") was dissolved as part of the agreement to create the Independent Grid Operator segment of the WEQ. The joint development process between NAESB and NERC is being used to ensure appropriate coordination. The ISOs and RTOs have strong decision-making roles in both NERC and NAESB, and thus with the use of the joint development process, the JIC was no longer necessary. Documentation is being prepared to formally dissolve the JIC, which has not met since June 15, 2006. The record of the meetings can be found on the NAESB web site at the following link: http://www.naesb.org/weq/weq_nercmou.asp.

[1] The NERC-NAESB Coordination Joint Development Process was submitted to the Commission on February 17, 2006 in Attachment C of the Progress Report on NAESB Activities impacting Docket No. RM05-5-000, "Standards for Business Practices and Communication Protocols for Public Utilities": http://www.naesb.org/doc_view2.asp?doc=ferc021706.pdf.

126 FERC ¶ 61,253
UNITED STATES OF AMERICA
FEDERAL ENERGY REGULATORY COMMISSION

18 CFR Part Chapter I

[Docket No. PL09-4-000]

SMART GRID POLICY

(Issued March 19, 2009)

AGENCY: Federal Energy Regulatory Commission.

ACTION: Proposed Policy Statement and Action Plan.

SUMMARY: This proposed policy statement and action plan provides guidance to inform the development of a smarter grid for the Nation's electric transmission system focusing on the development of key standards to achieve interoperability of smart grid devices and systems. The Commission also proposes a rate policy for the interim period until interoperability standards are adopted. Smart grid investments that demonstrate system security and compliance with Commission-approved Reliability Standards, the ability to be upgraded, and other specified criteria will be eligible for timely rate recovery and other rate treatments. This rate policy will encourage development of smart grid systems.

DATES: Comments on the proposed policy statement and action plan are due [Insert_Date 45 days after publication in the **FEDERAL REGISTER**]

FOR FURTHER INFORMATION CONTACT:

David Andrejcak
Office of Electric Reliability
888 First Street, N.E.
Washington, D.C. 20426
(202) 502-6721
david.andrejcak@ferc.gov

Elizabeth H. Arnold
Office of General Counsel
888 First Street, N.E.
Washington, D.C. 20426
(202) 502-8818
elizabeth.arnold@ferc.gov

Ray Palmer
Office of Energy Market Regulation
888 First Street, N.E.
Washington, D.C. 20426
(202) 502-6569
ray.palmer@ferc.gov

SUPPLEMENTARY INFORMATION:

126 FERC ¶ 61,253
UNITED STATES OF AMERICA
FEDERAL ENERGY REGULATORY COMMISSION

Before Commissioners: Jon Wellinghoff, Acting Chairman;
Suedeen G. Kelly, Marc Spitzer,
and Philip D. Moeller.

Smart Grid Policy Docket No. PL09-4-000

PROPOSED POLICY STATEMENT AND ACTION PLAN

(Issued March 19, 2009)

1. The Commission is issuing this proposed policy statement to articulate its policies and near-term priorities to help achieve the modernization of the Nation's electric transmission system, one aspect of which is "Smart Grid" development. Smart Grid advancements will apply digital technologies to the grid, and enable real-time coordination of information from generation supply resources, demand resources,[1] and distributed energy resources (DER).[2] This will bring new efficiencies to the electric system through improved communication and coordination between utilities and with the grid, which will translate into savings in the provision of electric service. Ultimately the

[1] For purposes of this proposed policy statement, "demand resources" refers to the set of demand response resources and energy efficiency resources and programs that can be used to reduce demand or reduce electricity demand growth.

[2] DER comprises dispersed generation devices and dispersed storage devices, including reciprocating engines, fuel cells, microturbines, photovoltaics, combined heat and power, and energy storage. See International Electrotechnical Commission, International Standards IEC 61850-7-420.

smart grid will facilitate consumer transactions and allow consumers to better manage their electric energy costs. These technologies will also enhance the ability to ensure the reliability of the bulk-power system. The Commission's interest and responsibilities in this area derive from its authority over the rates, terms and conditions of transmission and wholesale sales in interstate commerce, its responsibility for approving and enforcing mandatory reliability standards for the bulk-power system in the United States, and a recently enacted law[3] requiring the Commission to adopt interoperability standards and protocols necessary to ensure smart-grid functionality and interoperability in the interstate transmission of electric power and in regional and wholesale electricity markets. The development and implementation of these interoperability standards is a challenging task, which requires the efforts of industry, the states and other federal agencies, in addition to the Commission. The Commission intends to use its authority, in coordination and cooperation with other governmental entities, to help achieve interoperability in a timely manner. Achievement of interoperability will not only increase the efficiency of the bulk-power system, with the goal of achieving long-term consumer savings, but will also enable demand response and other consumer transactions and activities that give consumers the tools to better control their electric energy costs. Reaching this goal will also help promote the integration of significant new renewable

[3] Energy Independence and Security Act of 2007, Pub. L. No. 110-140, 121 Stat. 1492 (2007) (EISA).

power into the transmission system and help state and federal initiatives to promote greater reliance on renewable power and meet future demand growth to satisfy the Nation's energy needs.

2. The purpose of the policy statement the Commission ultimately adopts will be to prioritize the development of key interoperability standards, provide guidance to the electric industry regarding the need for full cybersecurity for Smart Grid projects, and provide an interim rate policy under which jurisdictional public utilities may seek to recover the costs of Smart Grid deployments before relevant standards are adopted through a Commission rulemaking. Specifically, development of interoperability standards for inter-system communication, system security, wide-area situational awareness, demand response, electric storage, and electric transportation should be prioritized and accelerated. The work done on certain standards will provide a foundation for development of many other standards.

3. In addition, as further explained below, for the near term we propose certain rate treatments to encourage investment in Smart Grid technologies that advance efficiency, security, reliability and interoperability in order to address potential challenges to the bulk-power system. We recognize that a key consideration of public utilities in deciding whether to invest in Smart Grid technologies may involve the potential for stranded costs associated with legacy systems that are replaced by Smart Grid equipment. Additionally, as the electric system may require several of the new capabilities of the Smart Grid

before interoperability standards have been developed, we recognize the need for guidance for jurisdictional entities. Thus, to offer some rate certainty and guidance regarding cost recovery issues, the Commission is proposing a rate policy for the interim period until final interoperability standards are adopted. The Commission also proposes that smart grid investments that demonstrate system security and compliance with Commission-approved Reliability Standards, the ability to be upgraded, and other specified criteria will be eligible for timely rate recovery and other rate treatments. For now, we propose as an interim rate policy to accept single-issue rate filings submitted under FPA section 205 by public utilities to recover the costs of Smart Grid deployments involving jurisdictional facilities provided that certain showings are made. In other words, we propose to consider Smart Grid devices and equipment, including those used in a Smart Grid pilot program or demonstration project, to be used and useful for purposes of cost recovery if an applicant makes the certain showings, as described below.

4. We seek comments from the industry on these and other steps the Commission can take to encourage and expedite the development of interoperability standards and implementation of Smart Grid projects. In the near future, we may convene a technical conference for further public input on these issues.

I. Background

5. Under the Federal Power Act (FPA), the Commission has jurisdiction over the transmission of electric energy in interstate commerce by public utilities, and over the

reliable operation of the bulk-power system in most of the Nation.[4] The Commission also was given a new responsibility under the EISA, discussed further below, to issue a rulemaking to adopt standards and protocols to ensure Smart Grid functionality and interoperability in interstate transmission of electric power and in regional and wholesale electric markets.

6. Section 1301 of the EISA states that it is the policy of the United States to support the modernization of the Nation's electricity transmission and distribution system to maintain a reliable and secure electricity infrastructure that can meet future demand growth and to achieve each of several goals and characteristics, which together characterize a Smart Grid.[5] These goals and characteristics are:

> (1) Increased use of digital information and controls technology to improve reliability, security, and efficiency of the electric grid. (2) Dynamic optimization of grid operations and resources, with full cyber-security. (3) Deployment and integration of distributed resources and generation, including renewable resources. (4) Development and incorporation of demand response, demand-side resources, and energy efficiency resources. (5) Deployment of "smart" technologies (real-time, automated, interactive technologies that optimize the physical operation of appliances and consumer devices) for metering, communications concerning grid operations and status, and distribution automation. (6) Integration of "smart" appliances and consumer devices. (7) Deployment and integration of advanced electricity storage and peak-shaving

[4] 16 U.S.C. 824, 824o.

[5] EISA sec. 1301, to be codified at 15 U.S.C. 17381.

> technologies, including plug-in electric and hybrid electric vehicles, and thermal storage air conditioning. (8) Provision to consumers of timely information and control options. (9) Development of standards for communication and interoperability of appliances and equipment connected to the electric grid, including the infrastructure serving the grid. (10) Identification and lowering of unreasonable or unnecessary barriers to adoption of smart grid technologies, practices, and services.[6]

7. Section 1305(a) of EISA directs the National Institute of Standards and Technology (the Institute) ". . . to coordinate the development of a framework that includes protocols and model standards for information management to achieve interoperability of smart grid devices and systems."[7] A helpful description of interoperability is "the ability of a system or a product to work with other systems or products without special effort on the part of the customer . . ."[8] In order to achieve the

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[6] Id.

[7] EISA sec. 1305(a), to be codified at 15 U.S.C. 17385(a).

[8] Testimony of Patrick D. Gallagher, Ph.D., Deputy Director, National Institute of Standards and Technology, before the Committee on Energy and Natural Resources, United States Senate, March 3, 2009, available at: http://www.nist.gov/director/ocla/nist%20pgallagher%20smart%20grid%20testimony%20senate%20e&nr%203-3-09.pdf. According to the GridWise Architecture Council, the term "interoperability" refers to the ability to: (1) exchange meaningful, actionable information between two or more systems across organizational boundaries; (2) assure a shared meaning of the exchanged information; (3) achieve an agreed expectation for the response to the information exchange; and (4) maintain the requisite quality of service in information exchange (i.e., reliability, accuracy, security). See GridWise Architecture Council, Interoperability Path Forward Whitepaper at 1-2, 2005, available at: http://www.gridwiseac.org/pdfs/interoperability_path_whitepaper_v1_0.pdf. The GridWise Architecture Council was formed by the U.S. Department of Energy to

(continued…)

Smart Grid characteristics and functions listed in EISA section 1301, interoperability of Smart Grid equipment will be essential.

8. Finally, pursuant to the EISA, once the Commission is satisfied that the Institute's work has led to "sufficient consensus" on interoperability standards, we are directed to "institute a rulemaking proceeding to adopt such standards and protocols as may be necessary to insure smart-grid functionality and interoperability in interstate transmission of electric power, and regional and wholesale electricity markets."[9]

9. The Commission appreciates the Institute's work to assess current Smart Grid standards and infrastructure to identify gaps, and is aware of its plans to create a knowledge base to enable effective communication among stakeholders and a roadmap to lay out a recommended course toward a highly interoperable grid.[10] In general, we expect that the Institute will recommend standards to the Commission that have resulted from the Institute's coordination with standards development organizations and technical experts. The Commission will initiate rulemakings as individual or suites of standards[11] achieve sufficient consensus. The Commission will consider the most effective and

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promote and enable interoperability among the many entities that interact with the Nation's electric power system. See http://www.gridwiseac.org/about/mission.aspx.

[9] EISA sec. 1305(d), to be codified at 15 U.S.C. 17385(d).

[10] See Testimony of Patrick D. Gallagher, Ph.D., infra n.8.

[11] A suite of standards would consist of a group of related standards.

efficient ways to interact with the Institute and standards development organizations between the issuance of a notice of proposed rulemaking on submitted standards and a final rule adopting standards. We invite comment on this proposed approach.

10. The Commission will continue to take an active role in helping to ensure that the participants in the Institute's process effectively prioritize and sequence future standards development efforts. We invite comments on what factors the Commission should consider in determining when the Institute's work has led to "sufficient consensus" on interoperability standards to warrant instituting a rulemaking proceeding. We also seek comment and ideas on how to identify and stage the adoption of successive waves of interoperability standards. Finally, we seek comment as to whether there should be some formal process for parties to seek Commission guidance if negotiations on certain interoperability standards reach an impasse.

II. Discussion

A. Urgency of Achieving Certain Smart Grid Functionalities

11. As noted above, rather than directing the Institute to develop interoperability standards of its own, Congress charged the Institute with coordinating such development. The EISA specifically requires the Institute to solicit input from, among others, a range of

existing standards development organizations that rely on extensive negotiation in order to achieve broad industry consensus on proposed standards.[12]

12. The EISA contains no specific deadline for the creation of interoperability standards; instead, it provides for a consensus-based process. However, there is a sense of urgency within industry and government for the development of standards for and deployment of smart grid technologies generally. The Commission is particularly interested in the development of Smart Grid functions and characteristics that can help address challenges to the Commission-jurisdictional bulk-power system. These include the cross cutting issues of cybersecurity and the further development of common information models to allow useful exchange of electric system information (e.g., standard definitions). Broad policy goals also need to be addressed such as optimizing the transmission system to reduce congestion and improve reliability, security and efficiency; encouraging increased reliance on demand response; state and possibly national climate change initiatives such as Renewable Portfolio Standards and other efforts that result in increased reliance on variable renewable resources; and the potential

[12] The EISA specifically names the IEEE (formerly known as the Institute of Electrical and Electronics Engineers), and the National Electrical Manufacturers Association. Other relevant existing standards development organizations could include the International Electrotechnical Commission (IEC), the American National Standards Institute (ANSI), the German Standards Institute (actually Deutsches Institut für Normung), the International Organization for Standardization, and the International Telecommunication Union.

for increased and variable electricity loads from the transportation sector. We discuss in turn the importance of each of these in driving the need for Smart Grid capabilities and the standards to achieve interoperability of smart grid devices with the electric grid and its associated users and infrastructure.

Cybersecurity and reliability

13. Absent any consideration of the Smart Grid concept, other activities and events currently taking place in various regions raise physical and cybersecurity concerns for the electric industry. For example, utilities have already taken advantage of the existing communications infrastructure and capabilities of the Internet to aid their marketing operations. While typically not connecting their more sensitive control center systems directly to the Internet, many entities have nevertheless upgraded those systems to use Internet-based protocols and technologies. This, coupled with the fact that the non-Internet-connected control center operations may be connected to the same corporate network as the Internet-connected marketing systems, means that there may be an indirect Internet vulnerability to those sensitive control systems. Accordingly, without adequate protections, these preexisting utility efforts potentially increase the exposure of the bulk-power system to cybersecurity threats. Cybersecurity and physical security have been ongoing concerns for the Commission and the electric industry with the advent of the mandatory and enforceable federal bulk-power system reliability regime in place in most of the United States under the oversight of the Commission pursuant to FPA section

215.[13] Pursuant to this section 215 authority, the Commission recently approved eight cyber and physical protection related reliability standards.[14]

14. The fact that a smarter grid would permit two-way communication between the electric system and a much larger number of devices located outside of controlled utility environments commands that even more attention be given to the development of cybersecurity standards. Therefore, the Commission proposes to advise the Institute to undertake the necessary steps to assure that each standard and protocol that is developed as part of the Institute's interoperability framework is consistent with the overarching cybersecurity and reliability mandates of the EISA as well as existing reliability standards approved by the Commission pursuant to section 215 of the FPA. The Commission proposes to make consistency with cybersecurity and reliability standards a precondition to its adoption of Smart Grid standards. We seek comment on these proposals.

15. In order to fully incorporate measures to protect against cyber and physical security threats, we also propose to advise the Institute to take the necessary steps to assure that its process for the development of any interoperability standards and protocols

[13] 16 U.S.C. 824o.

[14] See Mandatory Reliability Standards for Critical Infrastructure Protection, Order No. 706, 73 FR 7368 (Feb. 7, 2008), 122 FERC ¶ 61,040, reh'g denied and clarification granted, Order No. 706-A, 123 FERC ¶ 61,174 (2008). Notably, section 215(a) of the FPA, 16 U.S.C. 824o(a), defines the terms "reliability standard," "reliable operation," and "cybersecurity incident."

leaves no gaps in cyber or physical security unfilled. We are concerned that this could be a particular problem where separate groups of interested industry members independently develop and advocate select standards or protocols for the Institute's consideration. We seek comment on this proposal.

Inter-system communication and coordination

16. There is an urgent need to further develop a common semantic framework (i.e., agreement as to meaning) and software models for enabling effective communication and coordination across inter-system interfaces. Such standards could play an important role in the movement to a smarter grid that is capable of addressing challenges to the operation of the bulk-power system. The bulk-power system can be thought of as a system of systems.[15] In order to enable a smarter grid, particularly one capable of addressing the bulk-power system challenges discussed below, effective interfaces must be developed between and among all of these systems (i.e., inter-system interfaces) and common information model standards appear to be powerful tools to enable such inter-system interfaces. The Commission proposes to identify standards for common information models for inter-system interfaces as a high priority for accelerated development. We seek comment on this proposal.

Integrating renewable resources into the electric grid

[15] See Appendix A for a graphic representation of the various systems.

17. Several groups of states have been working on aggressive regional carbon control measures,[16] and one regional effort has already begun operation in the form of the Regional Greenhouse Gas Initiative.[17] Federal legislation addressing carbon control and other environmental and climate related matters may follow. These initiatives point toward a shift in the mix of fuels that will be used to generate electricity, and an associated shift in where new generation resources are located. Additional transmission capacity to ensure deliverability of those new generating resources will be needed in the form of new transmission lines and more efficient use of existing infrastructure. Also, additional demand resources, generation resources, and DER will be needed to reliably integrate variable generation into the electric grid. Efforts to address these challenges could benefit from the enhanced capabilities associated with certain aspects of the Smart Grid; among them, the ability to maximize the capability and use of existing and new transmission capacity,[18] and foster the deployment and integration of demand resources, generation resources and DER.

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[16] See, e.g., the Western Climate Initiative (http://www.westernclimateinitiative.org/) and the Midwestern Greenhouse Gas Reduction Accord (http://www.midwesternaccord.org/).

[17] See http://www.rggi.org/home.

[18] For example, a smarter grid could enable an increase in transmission capacity through a switch from static to dynamic transmission line ratings enabled by the advanced sensor, communications, and information technology capabilities associated with a smarter grid.

18. As of December 2008, the Nation had 25,170 MW of wind generation based on nameplate capacity.[19] According to the 2008 Long-Term Reliability Assessment by the North American Electric Reliability Corporation (NERC), an additional 145,000 MW of wind power projects are planned or proposed over the next ten years.[20] Accordingly, it is evident that in a relatively short period of time, some parts of the bulk-power system may face the need to effectively integrate unprecedented amounts of variable generation resources. This is significant because operators of variable generation have less control over when the resource is available to produce electricity, in contrast with more conventional fossil and nuclear generation.

19. Large amounts of variable generation raise several important operational and planning issues, including: (1) resource adequacy (potential loss and unavailability of variable resources at peak periods and other critical times such as loss of other generators or transmission lines); (2) resource management (potential for over-generation by variable resources during off-peak periods when there is insufficient load to accommodate such generation); and (3) reduced system inertia (potential loss of system

[19] Source, American Wind Energy Association's website: http://www.awea.org/projects/.

[20] North American Electric Reliability Corporation, 2008 Long-Term Reliability Assessment at 12.

stability due to the high penetration of variable resources with low inertia properties). [21] Given sufficient time and resources, a variety of solutions to these concerns may be feasible. For example, investment in large amounts of electricity storage could ultimately address both the resource adequacy and resource management concerns,[22] although technical and economic issues remain to be addressed before such investment is likely to become significant. In the meantime, Smart Grid-enabled demand response capabilities[23]

[21] Inertia is the physical property which allows an object in motion to continue to stay in motion, absent other forces. Traditional dispatchable generating units (such as thermal and hydro power plants) utilize large rotary generators which have large amounts of inertia. This property has a tendency to stabilize the bulk-power system with an output response in the event of a disturbance. Variable resources, such as wind and solar, have less or no inertia and, as such, cut back more quickly in response to disturbances (e.g., frequency excursions), which may contribute to power system instabilities.

[22] The Electricity Advisory Committee, which was formed by the Department of Energy to provide it with advice on a number of electricity issues, recently issued a report, Bottling Electricity: Storage as a Strategic Tool for Managing Variability and Capacity Concerns in the Modern Grid, December 2008. This report asserts that there are many benefits to deploying energy storage technologies into the Nation's grid: (1) a means to improve grid optimization for bulk power production; (2) a way to facilitate power system balancing in systems that have variable renewable energy sources; (3) facilitation of integration of plug-in hybrid electric vehicle power demands with the grid; (4) a way to defer investments in transmission and distribution infrastructure to meet peak loads (especially during outage conditions) for a time; and (5) a resource providing ancillary services directly to grid/market operators.

[23] The Smart Grid concept envisions a power system architecture that permits two-way communication between the grid and essentially all devices that connect to it, ultimately all the way down to large consumer appliances. Efforts at realizing this concept focus on standardization to enable all of this new equipment to be manufactured economically in support of widespread adoption by consumers. Once that is achieved, a significant proportion of electric load could become an important resource to the electric

(continued…)

could add important new tools to deal with both resource adequacy and resource management concerns.[24] Demand response reductions in load can help address the resource adequacy concerns surrounding unexpected loss of variable generation, and EISA envisions, among other things, the development of large new pools of demand response resources.[25]

20. With respect to the resource management concerns surrounding potential over-generation, this situation tends to arise during off-peak periods when load is at its lowest and system operators have already turned off all traditional generation except their large conventional units that, for primarily operational reasons, must be operated in a nearly steady state around the clock.[26] If large amounts of variable generation begin producing

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system, able to respond automatically to customer-selected price or dispatch signals delivered over the Smart Grid infrastructure without significant degradation of service quality. For purposes of this proposed policy statement we will refer to such new demand response capability as Smart Grid-enabled demand response capability.

[24] A recent NERC Draft Special Report recognizes that "[d]emand response has already been shown in some balancing areas to be a flexible tool for operators to use with wind generation [footnote omitted] and is a potential source of flexibility equal to supply-side options." NERC, Special Report Accommodating High Levels of Variable Generation at 45; available at http://www.nerc.com/docs/pc/ivgtf/IVGTF_Reporta_17Nov08.pdf.

[25] See, e.g., EISA sec. 1301(4), (5), (6), (8), and (9), to be codified at 15 U.S.C. 17381(4), (5), (6), (8), and (9).

[26] There can also be an economic justification for around-the-clock operation because large conventional units tend to have relatively higher capital costs and lower running costs. However, their generally slow and difficult start-up and cool-down sequences are the main reason why they cannot be started and stopped easily to address

(continued…)

power during such periods, then the supply of electricity would exceed the demand for electricity and risk unbalancing the bulk-power system. In order to bring the system back into balance in a situation where easily dispatchable generation or demand resources are not available, system operators may have to require variable generation to reduce output. However, at such times this variable generation may be producing the lowest priced energy on the system, so reducing or eliminating its output would not be economically efficient. If a system existed whereby entities[27] could receive a timely signal to temporarily shift their demand from peak to off-peak, and if such load shifts could be controlled by the system operator, then such "dispatchable" demand response could alleviate to some degree the resource management concerns associated with over-generation from the other side of the supply/demand equation. Again, the urgency to develop and implement those aspects of a smarter grid that can enable such demand response capability is clear.[28]

21. The future potential for a large and variable new class of electric load, specifically electricity-powered vehicles, also presents challenges that may deserve special attention and priority in the consensus-based interoperability process being coordinated by the

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over-generation situations.

[27] Such entities would need to have invested in the equipment necessary to reliably measure and control either their own load or the load of clients that they manage under contract.

[28] See, e.g., EISA sec. 1301(4), (5), (6), (8), and (9).

Institute. In addition to the plans of major automobile manufacturers to roll out plug-in hybrid vehicles starting in 2010, it is possible that large numbers of pure electric vehicles, sometimes known as neighborhood electric vehicles, could be purchased as second cars for short-haul daily commuting or for other purposes.[29] Judging by the observed intensity of electric utility and state government interest in this area,[30] the potential for a significant shift in personal transportation technology to electric power in the near future cannot be discounted.

22. The timing of vehicle charging activities is an illustration of the effect electric vehicles can have on the operation of the electric grid. If charging takes place during peak periods it could require a large investment in new generation, demand response resources and/or transmission capacity to meet the resulting higher peak loads. However, charging off-peak could actually improve the operation of the electric system, for example by improving existing generation asset utilization or by providing an electricity storage solution to address the potential for over-generation by variable resources in off-

[29] See, e.g., Kris Osborn, Services Plan to Buy Electric Cars, Federal Times, November 17, 2008, at 3 (noting that Army, Navy, and Air Force plan to purchase a total of 30,000 neighborhood electric vehicles for use on military bases).

[30] See, e.g., John S. Adams, Bill benefits 'medium-speed' electric cars, Great Falls Tribune, January 9, 2009 (reporting on efforts in the Montana legislature to ease restrictions and ownership and use requirements on “medium speed” electric vehicles, which could include electric vehicles of up to 5,000 pounds gross vehicle weight), available at http://www.greatfallstribune.com/article/20090109/NEWS01/901090337.

peak periods. Ultimately, large numbers of plug-in electric vehicles have the potential to provide some ancillary services like distributed energy storage or, when aggregated, regulation service. In all cases, however, the enhanced information processing and high-speed communications and control capabilities of the Smart Grid would be extremely helpful, perhaps necessary, in dealing with the challenges and opportunities associated with large numbers of new electric vehicles on the bulk-power system.

23. Additionally, these and other changing patterns of electricity generation and use are increasing the frequency with which congestion on transmission facilities becomes binding and raises costs for consumers. The Smart Grid concept includes the deployment of advanced sensors and controls throughout the electric system that should maximize the capability and use of existing and new transmission capacity.

24. For all of the reasons discussed above, which may represent direct challenges to the reliable operation of the bulk-power system and wholesale power markets, the fact that many utilities are already beginning to deploy Smart Grid related systems, and the substantial funding for Smart Grid in the American Recovery and Reinvestment Act,[31]

[31] See American Recovery and Reinvestment Act, Pub. L. No. 111-5, Title IV, Subpart A, __ Stat. ___, ___ (2009) (ARRA).

the Commission herein proposes a targeted acceleration of certain aspects of the interoperability standards process as described further below.[32]

B. Development of Key Interoperability Standards

25. As discussed above, several important trends indicate a strong national interest in expediting the development and deployment of the types of technologies and capabilities associated with a smarter grid. To achieve these types of capabilities, Smart Grid technologies must be interoperable.[33] The Commission understands that a consensus-based interoperability standards development process typically requires time to reach consensus, but also recognizes that recent efforts by the Institute and several industry groups, including the OpenSG Subcommittee of the Utility Communication Architecture International User Group (OpenSG Subcommittee) and the GridWise Architecture Council, have developed concepts to prioritize the large set of potential standards, and have suggested principles for expediting development of a set of transmission and distribution systems standards that will facilitate many other important standards development activities. The Commission is committed to identifying these key transmission and distribution standards and working with the Institute to expedite their

[32] This is consistent with the Institute's approach of prioritizing standards and functionalities that may impact reliability. See NIST Smart Grid Issues Summary, March 10, 2009, available at: http://www.nist.gov/smartgrid/ (in case link is temporarily unavailable at this website, please request it via e-mail at: smartgrid@nist.gov).

[33] See Gridwise Architecture Council, Interoperability Path Forward Whitepaper, infra n.8.

adoption. The Commission believes that focusing on the priorities identified below will help to remove uncertainty for developers of standards applicable to all levels of the grid.

26. The Institute has issued for comment a "Smart Grid Issues Summary" that will act as an interim roadmap, starting with high priority standards that are largely based on existing broadly accepted standards.[34] Leveraging existing standards to the greatest extent practical should shorten the time required to finalize needed interoperability standards.

27. The Commission proposes to prioritize the development of standards for two cross-cutting issues and four key grid functionalities involving interfaces between utilities (e.g., regional transmission organizations (RTO) to utilities outside the RTO), utilities and customers, and utilities and other systems (e.g., energy management systems). These cross-cutting issues and key functionalities are proposed as the first level of work to be accomplished in the interoperability standards-setting process. Swift progress on adopting standards for these cross-cutting issues and key functionalities is necessary for the transmission operator/RTO to address the bulk-power system challenges identified above.

28. The two cross cutting issues are first, cybersecurity (and physical security to protect equipment that can give access to Smart Grid operations) and second, a common

[34] See infra n.32.

semantic framework and software models for enabling effective communication and coordination at the boundaries of utility systems where these interface with customer and other systems (and hence provide "inter-system" functionality).[35] The four key grid functionalities are wide-area situational awareness, demand response, electric storage, and electric transportation.

System Security

29. We propose two initial overarching principles regarding security that Smart Grid applications must address in order to comply with the need for full cybersecurity and with the Commission's bulk-power system concerns, consistent with our authority under section 215 of the FPA.[36] First, we believe that a responsible entity subject to Commission-approved reliability standards, such as the Critical Infrastructure Protection Reliability Standards, must ensure that it maintains compliance with those standards during and after the installation of Smart Grid technologies. Indeed, many Smart Grid installations will need to be included on a responsible entity's list of critical assets to be

[35]The concept of the Smart Grid as a "system of systems" and the importance of the need of first focusing on the inter-system interfaces are presented in a paper by the OpenSG Subcommittee and Smart Grid Executive Working Group entitled Smart Grid Standards Adoption: Utility Industry Perspective (Utility Perspective Paper), available at: http://osgug.ucaiug.org/Shared%20Documents/Forms/AllItems.aspx. A graphic that illustrates these concepts is found in Appendix A.

[36] 16 U.S.C 824o.

protected under the Commission-approved NERC Critical Infrastructure Protection Reliability Standards.

30. Second, to the extent that they could affect the reliability of the bulk-power system, Smart Grid technologies must address, the following considerations: (1) the integrity of data communicated (whether the data is correct); (2) the authentication of the communications (whether the communication is between the intended Smart Grid device and an authorized device or person); (3) the prevention of unauthorized modifications to Smart Grid devices and the logging of all modifications made; (4) the physical protection of Smart Grid devices; and (5) the potential impact of unauthorized use of these Smart Grid devices on the bulk-power system.

31. To the extent that any of the new Smart Grid standards or extensions to relevant existing standards require adaptation or extension in order to address these security-related concerns, such considerations should be given the highest priority. The Institute has suggested that beyond the NERC Critical Infrastructure Protection Reliability Standards, additional security standards to be investigated include ISA99/IEC 62443, NIST Special Publication (SP) 800-53, and the work of AMI-SEC.[37] The Institute also

[37] ISA99/IEC 62443 represents a suite of standards for industrial automation and control system security. NIST Special Publication (SP) 800-53 involves security controls for federal agencies, including those who are part of the bulk-power system (e.g., Tennessee Valley Authority, Bonneville Power Authority). The Advanced Metering Infrastructure (AMI) Security Task Force (AMI-SEC), is defining common requirements and standardized specifications for securing AMI system elements.

suggests examining harmonization of several of these standards in order to provide additional protection to the bulk-power system. Commission staff will monitor Institute activities with respect to Smart Grid cybersecurity and physical security in order to fully coordinate the Commission's regulatory objectives and responsibilities in this arena. The Commission seeks comments on this proposed approach to maintaining bulk-power system reliability and security as smart grid technologies are deployed and integrated.

Communication

32. The second cross-cutting issue is the need for a common semantic framework (i.e., agreement as to meaning) and software models for enabling effective communication and coordination across inter-system interfaces. An interface is a point where two systems need to exchange data with each other; effective communication and coordination occurs when each of the systems understands and can respond to the data provided by the other system, even if the internal workings of each system are quite different. A core group of standards initiated by the Electric Power Research Institute provide the basis for addressing this issue - these standards are IEC 61970 and IEC 61968 (together often referred to as the "Common Information Model" standards) and IEC 61850. These standards have been cited by both the Utility Perspective Paper, as well as the Institute's recent Smart Grid Issues Summary.[38] This group of standards was designed to allow

[38] See infra n.32.

different systems to talk to one another as well as to provide software development tools for more efficient system integration. This suite of standards is already in use by a number of utilities for enterprise system integration (enabling integration across "intra-system" interfaces). Indeed, while additional work on these standards will also help intra-system communication and coordination, we agree with the OpenSG Subcommittee and the Institute that inter-system interfaces should be a priority.

33. The Commission is not mandating that these particular standards be further developed. Rather, we identify them here to establish priorities for further development by the Institute and industry. The group of standards initiated by the Electric Power Research Institute serves as a foundation for developing a complete set of communications standards. These standards require some level of harmonization with one another and other standards, and extensions to these standards will be required for additional interoperability and functionality. Efforts to coordinate and/or harmonize these standards with others intended to promote interoperability should be encouraged. For example, ongoing efforts to coordinate IEC 61968 with "MultiSpeak" developed by the National Rural Electrical Cooperative Association should be continued. But these standards represent the best work to date and will be an essential building block in realizing the most significant early benefits for the bulk-power system. These standards are also key to the attainment of renewable power and climate policy goals and can help

enable customers to manage their energy usage and cost. The Commission seeks comments on this proposed approach.

Four Priority Functionalities

34. In addition to the cross-cutting issues discussed above, the Commission seeks comments on the four Smart Grid functionalities that the Commission's preliminary analysis indicates will be most helpful in addressing the bulk-power system challenges and should be given priority in the standards development process.

Wide-area situational awareness

35. Wide-area situational awareness is the visual display of interconnection-wide system conditions in near real time at the reliability coordinator level and above. The wide-area situational awareness efforts, with appropriate cybersecurity protections, can rely on the NASPInet work undertaken by the North American SynchroPhasor Initiative (NASPI) and will require substantial communications and coordination across the RTO and utility interfaces. We encourage the RTOs to take a leadership role in coordinating the NASPI work with the member transmission operators.

36. Regarding the potential Smart Grid role in addressing transmission congestion and optimization of the system, increased deployment of advanced sensors like Phasor Measurement Units will give bulk-power system operators access to large volumes of high-quality information about the actual state of the electric system that should enable a more efficient use of the electric grid, for example through a switch from static to

dynamic line ratings. However, such large volumes of data present challenges in the form of information processing and management. Advanced software and systems will be needed to manage, process, and render this data into a form suitable for human operators and automated control systems. The Institute's process should strive to identify the core requirements for such software and systems that would be most useful to system operators in addressing transmission congestion and reliability.

Demand response

37. Smart Grid-enabled demand response is a priority because of its potential to help address several of the bulk-power system challenges identified above. Further development of key standards would enhance interoperability and communications between system operators, demand response resources, and the systems that support them. In order to achieve an appropriate level of standardizations, a series of demand response "use cases" should be developed using readily available tools.[39] In this regard, we encourage a particular focus on use cases for the key demand response activities discussed earlier: dispatchable demand response load reductions to address loss or unavailability of variable resources and the potential for dispatchable demand response to increase power consumption during over-generation situations.

[39] The "use case" is a concept from the software and systems engineering communities whereby a developer, usually in concert with the end user, attempts to identify all of the functional requirements of a system. Each "use case" essentially describes how a user will interact with a system to achieve a specific goal.

38. It also appears that achieving such demand response capabilities will require additional standardization of the interfaces between systems on the customer premises and utility systems, including addressing data confidentiality issues. The Institute notes that considerable work has been done to develop demand response standards. One standard, Open Automated Demand Response (OpenADR) (developed for the interface between the utility and large commercial customers) has already been referred to the Organization for the Advancement of Structured Information Systems (OASIS). OpenADR has been developed by the Lawrence Berkeley National Laboratory, and is now going through a formal standards development process being coordinated between OASIS and the Utility Communication Architecture International User Group.[40] Accordingly, we would encourage a focus in this area as well.

39. Specifications for customer meters are within the jurisdiction of the States, but it is clear that communication and coordination across the interfaces between the utility and its customers can have a significant impact on the bulk-power system, particularly as new renewable power and climate policy initiatives introduce the need for more flexibility in the electricity grid, which creates the need for increased reliance on demand response and

[40] The Utility Communication Architecture International User Group has also been developing OpenHAN, a specification for the energy services interface between the home area network (HAN) and the utility. Both OpenHan and OpenADR will benefit from the planned extensions of IEC 61850 and the common information model standards described above.

electricity storage. A large portion of electricity storage may ultimately be located on customer premises. As noted in the Institute's Smart Grid Issues Summary, an appropriate starting point for further standards development would be the harmonization of IEC Standard 61850 and several meter standards, namely ANSI C12.19 and C12.22, and we encourage the Institute and industry to work together on this suggestion. The Commission seeks comment from States and other parties on the optimal approach to develop standards in this area, and we will pursue direct communications with the States on this topic through the NARUC-FERC Smart Grid Collaborative and other NARUC Committees.

Electric storage

40. The third key grid functionality is electric storage. If electricity storage technologies could be more widely deployed, they would present another important means of addressing some of the difficult issues facing the electric industry. To date, the only significant bulk electricity storage technology has been pumped storage hydroelectric technology. However, we are aware that new types of storage technologies are under development and in some cases are being deployed, and could also potentially provide substantial value to the electric grid. While further research and development appears necessary before any widespread deployment of such newer technologies can take place, it may nevertheless be appropriate to encourage the identification and standardization of all possible electricity storage use cases at an early stage. There are

existing standards that can be the starting point for interoperability standards development for DER. IEC 61850 addresses communications for DER, and IEEE 1547 has been designated as a federal standard for interconnection.[41]

Electric transportation

41. The fourth key grid functionality is electric transportation. As indicated above, to the extent that new electric transportation options become widely adopted in the near future, maintaining the reliable operation of the bulk-power system will require some level of control over when and how electric cars draw electricity off of the system. At the most basic level, this could be accomplished by providing an ability for distribution utilities to facilitate vehicle charging during off-peak periods so that this new electric load would not increase peak loads and require the development of new peak generation, demand response and/or more transmission to urban load centers that are being targeted for these vehicles. A more advanced implementation could offer vehicle owners the option to voluntarily limit their charging to times when variable renewable generation is producing power or to permit utilities the limited use of the aggregated capabilities of these vehicles for various grid-related purposes such as bulk power storage or ancillary services.

[41] See Energy Policy Act of 2005, Pub. L. No. 109-58, sec. 1254, 110 Stat. 594, 970 (2005), adding a new subsection 111(d)(15) to the Public Utility Regulatory Policies Act of 1978 (16 U.S.C. 2621(d)).

42. Ultimately we would hope for a smarter grid to accommodate a wide array of advanced options for electric vehicle interaction with the grid, including full vehicle-to-grid capabilities. However, assuming full vehicle-to-grid capabilities cannot be achieved immediately, we would encourage the Institute's process to focus on the development of appropriate standards, or extensions to relevant existing standards, to provide at least the minimum communications and interoperability requirements that are necessary to permit some ability for distribution utilities to facilitate vehicle charging during off-peak load periods. The Institute's Smart Grid Issues Summary notes that the Society of Automotive Engineers (SAE) has developed two draft standards, SAE J2836 and SAE J2847, which address communications and price signals/demand response respectively. These standards are on the SAE 2009 Ballot. Looking forward to the potential provision of ancillary services to the grid by electric vehicles, electrical interconnection issues must be dealt with along with potential expansion of communications ability. To this end, we urge the SAE and the automobile industry to plan data communications systems between electric vehicles and the grid that are able to be upgraded. We also urge the Institute to include electric vehicles in its DER standards development.

43. Several of the preceding paragraphs discuss the development of use cases or other standards that appear similar to business practice standards development, in order to help shape and identify the functional needs that the Institute's technical interoperability standards development process will address. Since the North American Energy

Standards Board (NAESB) has a great deal of experience in helping the electric and natural gas industries successfully negotiate business practice standards, it may be helpful to the Institute to engage NAESB resources in the development of these use cases and other business practice-like standards. We seek comment as to whether the Institute would be helped by the incorporation of resources from other organizations such as NAESB into the development of these various business practice-like standards.

44. The Commission seeks comment on whether the priorities and reliability principles articulated above are appropriate, and whether there are other priorities or reliability principles that should be included in order to address potential challenges to the operation of the bulk-power system.

C. Interim Rate Policy: Guidance for Smart Grid-Related Filings by Jurisdictional Entities

45. Given the trends discussed above, Smart Grid policies should encourage utilities to deploy systems in the near term that advance efficiency, security, and interoperability in order to address potential challenges to the bulk-power system. A key consideration for utilities when determining whether to adopt such systems will be whether they are able to recover the costs of these deployments in regulated rates. Another key consideration may involve the potential for stranded costs associated with legacy systems that are replaced by Smart Grid equipment. Additionally, as the electric system may require several of the new capabilities of the Smart Grid before interoperability standards have been developed, we recognize the need for guidance for jurisdictional entities. Thus, to offer some rate

certainty and guidance regarding cost recovery issues, the Commission is proposing a rate policy for the interim period until final interoperability standards are adopted.

46. FPA section 205 requires that all rates for the transmission or sale of electric energy subject to the Commission's jurisdiction be just and reasonable.[42] In evaluating expenses for which cost recovery is appropriate, one of the criteria the Commission relies on is whether the facilities are "used and useful."[43] Once interoperability standards are completed, the Commission will consider making compliance with those standards a mandatory condition for rate recovery of jurisdictional Smart Grid investments. For now, we propose as an interim rate policy to accept rate filings, including single issue rate filings, submitted under FPA section 205 by public utilities to recover the costs of Smart Grid deployments involving jurisdictional facilities provided that certain showings are made. In other words, we propose to consider Smart Grid devices and equipment, including those used in a Smart Grid pilot program or demonstration project, to be used and useful for purposes of cost recovery if an applicant makes the following showings.

47. We propose that an applicant must show that the reliability and security of the bulk-power system will not be adversely affected by the deployment at issue. Second,

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[42] 16 U.S.C. 824d.

[43] The general rate-making principle is that expenditures for an item may be included in a public utility's rate base only when the item is "used and useful" in providing service. See NEPCO Municipal Rate Committee v. FERC, 668 F.2d 1327, 1333 (D.C. Cir. 1981).

the filing must show that the applicant has minimized the possibility of stranded investment in Smart Grid equipment by designing for the ability to be upgraded, in light of the fact that such filings will predate adoption of interoperability standards. Finally because it will be important for early Smart Grid deployments, particularly pilot and demonstration projects, to provide feedback useful to the interoperability standards development process, we propose to direct the applicant to share information with the Department of Energy Smart Grid Clearinghouse, provided for in the ARRA.[44]

48. In order to satisfy our first concern about reliability and security, we propose that applicants will be required to address the security concerns discussed in the previous section on the development of key standards. Accordingly, an applicant must show how its proposed deployment of smart grid equipment will maintain compliance with Commission-approved reliability standards, such as the Critical Infrastructure Protection Reliability Standards, during and after the installation and activation of Smart Grid technologies so the reliability and security of the bulk-power system will not be jeopardized. An applicant must also address: (1) the integrity of data communicated (whether the data is correct); (2) the authentication of the communications (whether the communication is between the intended Smart Grid device and an authorized device or person); (3) the prevention of unauthorized modifications to Smart Grid devices and the

[44] ARRA sec. 405(3).

logging of all modifications made; (4) the physical protection of Smart Grid devices; and (5) the potential impact of unauthorized use of these Smart Grid devices on the bulk-power system.

49. Regarding the second concern about stranded smart grid investment, we propose to require a showing that the applicants have made good faith efforts to adhere to the vision of a Smart Grid described in Title XIII of the EISA, including optimizing asset utilization and operating efficiency. In general, applicants should attempt to adhere to the principles of the Gridwise Architecture Council Decision-Maker's Interoperability Checklist.[45] In practice, we will place the most weight on an applicant's adherence to the following principles: (1) reliance to the greatest extent practical on existing, widely adopted and open[46] interoperability standards; and (2) where feasible, reliance on systems

[45] See Gridwise Architecture Council Decision-Maker's Interoperability Checklist Draft Version 1.0, available at http://www.gridwiseac.org/pdfs/gwac_decisionmakerchecklist.pdf (Interoperability Checklist).

[46] An open architecture is publicly known, so any and all vendors can build hardware or software that fits within that architecture, and the architecture stands outside the control of any single individual or group of vendors. In contrast, a closed architecture is vendor-specific and proprietary, and blocks other vendors from adoption. An open architecture encourages multi-vendor competition because every vendor has the opportunity to build interchangeable hardware or software that works with other elements within the system. See Gridwise Architecture Council Decision-Maker's Interoperability Checklist Draft Version 1.0, available at http://www.gridwiseac.org/pdfs/gwac_decisionmakerchecklist.pdf. We note that Congress recently made utilization of open protocols and standards, if available and appropriate, a condition of receiving funding from the Department of Energy for

(continued…)

and firmware that can be securely upgraded readily and quickly. Adherence to these two key principles should minimize the possibility of stranded smart grid investment by making it less likely that equipment replacement will be required once final standards are approved.

50. Regarding the information sharing concern, the following information should be shared with the Department of Energy Smart Grid Clearinghouse: (1) any internal or third party evaluations, ratings, and/or reviews including all primary source material used in the evaluation; (2) detailed data and documentation explaining any improvement in the accurate measurement of demand response resources; (3) detailed data and documentation explaining the expansion of the quantity of demand response resources that resulted from the project and the resulting economic effects; (4) detailed data and documentation for any improvements in the ability to integrate variable renewable generation resources; (5) detailed data and documentation that shows any achievement of greater system efficiency through a reduction of transmission congestion and loop flow; (6) detailed data and documentation showing how the information infrastructure supports DER such as plug-in electric vehicles; and (7) detailed data and documentation that shows how the project resulted in enhanced utilization of energy storage. To the extent

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demonstration projects and grants pursuant to EISA sections 1304 and 1306. See American Recovery and Reinvestment Act, Pub. L. No. 111-5, sec. 405(3) and 405(8), __ Stat. ___, ___ (2009).

that the Department of Energy specifies additional criteria for making grants under the ARRA for Smart Grid demonstration and pilot projects, the Applicant should agree to share information relevant to those criteria as well.

51. Finally, consistent with the policy of supporting the modernization of the Nation's electric system announced in EISA section 1301, the Commission also proposes to permit applicants to file for recovery of the otherwise stranded costs of legacy systems that are to be replaced by smart grid equipment. However, an appropriate plan for the staged deployment of smart grid equipment, which could include appropriate upgrades to legacy systems where technically feasible and cost-effective, could help minimize the stranding of unamortized costs of legacy systems. Accordingly, we propose that any filing for the recovery of stranded legacy system costs must demonstrate that such a migration plan has been developed.

52. The Commission will also entertain requests for rate treatments such as accelerated depreciation and abandonment authority (whereby an applicant is assured of recovery of abandoned plant costs if the project is abandoned for reasons outside the control of the public utility) specifically tied to Smart Grid deployments under our FPA section 205 authority. Any requests for such rate treatments for Smart Grid deployments will need to address all of the concerns discussed above for rate recovery and make the same showings described in that section. We would also consider applying these rate treatments to the portion of a smart grid pilot or demonstration project's cost that is not

already paid for by Department of Energy funds, such as those authorized by EISA sections 1304 and 1306.[47] To the extent that such showings are made, we propose to consider permitting abandonment authority to apply to any Smart Grid investments that, despite reasonable efforts, could not be made upgradeable and must ultimately be replaced if found to conflict with the final standards to be approved under the Institute's standards development process.

53. The Commission invites comments on all aspects of this proposed interim rate policy.

III. Comment Procedures

54. The Commission invites comments on this proposed policy statement [Insert_Date 45 days after publication in the **FEDERAL REGISTER**].

IV. Document Availability

55. In addition to publishing the full text of this document in the Federal Register, the Commission provides all interested persons an opportunity to view and/or print the contents of this document via the Internet through FERC's Home Page (http://www.ferc.gov) and in FERC's Public Reference Room during normal business hours (8:30 a.m. to 5:00 p.m. Eastern time) at 888 First Street, N.E., Room 2A, Washington D.C. 20426.

[47] To be codified at 42 U.S.C. 17384, 17386.

56. From FERC's Home Page on the Internet, this information is available on eLibrary. The full text of this document is available on eLibrary in PDF and Microsoft Word format for viewing, printing, and/or downloading. To access this document in eLibrary, type the docket number excluding the last three digits of this document in the docket number field.

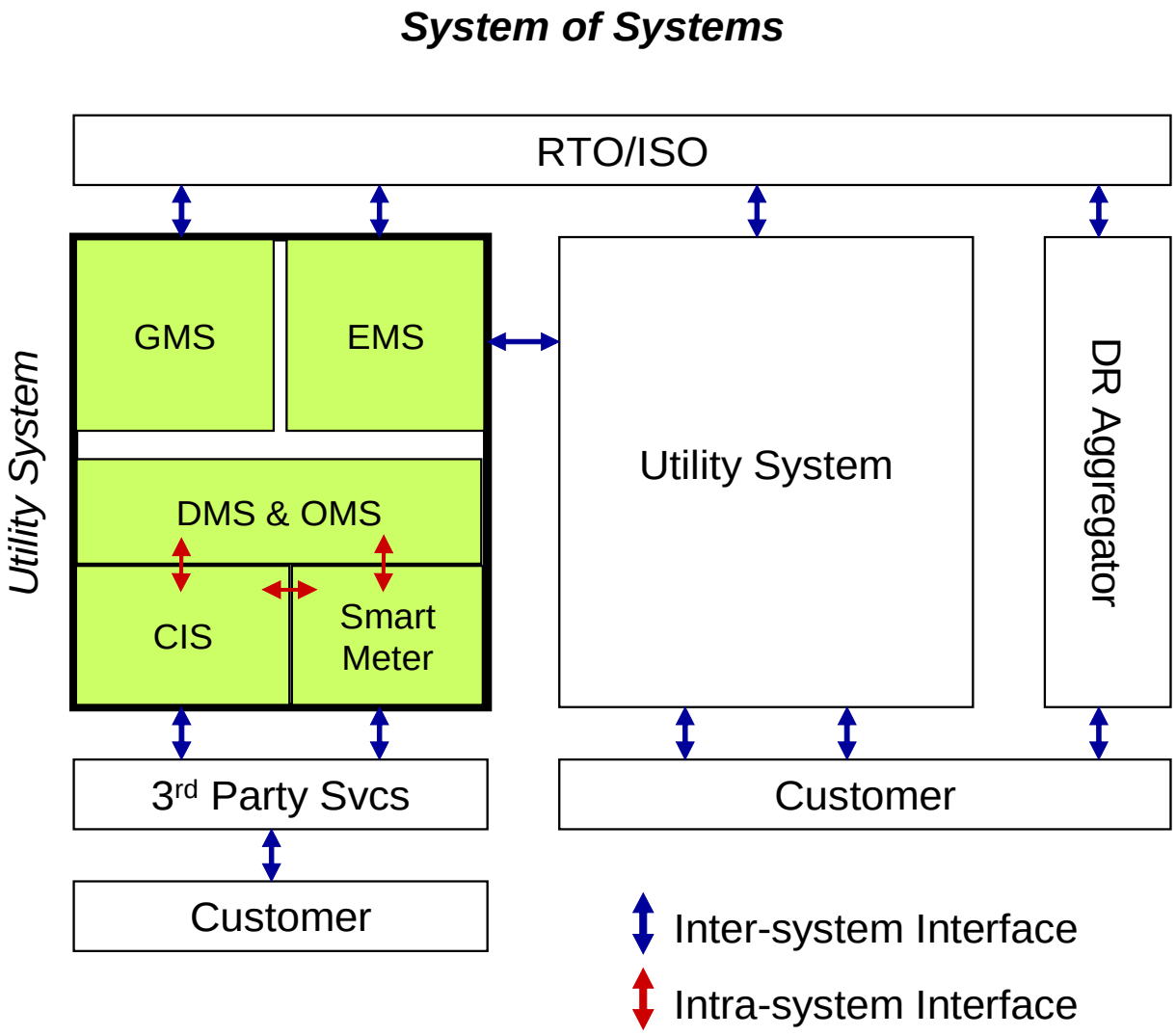
57. User assistance is available for eLibrary and the FERC's website during normal business hours from FERC Online Support at 202-502-6652 (toll free at 1-866-208-3676) or email at ferconlinesupport@ferc.gov, or the Public Reference Room at (202) 502-8371, TTY (202)502-8659. E-mail the Public Reference Room at public.referenceroom@ferc.gov.

By the Commission.

(S E A L)

Nathaniel J. Davis, Sr.,
Deputy Secretary.

Appendix A



Source: Smart Grid Standards Adoption: Utility Industry Perspective, OpenSG Subcommittee of the Utility Communication Architecture International User Group, and Smart Grid Executive Working Group.

Document Content(s)

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

January 28, 2009

TO: NAESB Executive Committee and Interested Industry Participants
FROM: Rae McQuade, NAESB Executive Director
RE: Schedule of 2009 Meetings

Below is the schedule of 2009 meetings for the Executive Committee, Board of Directors and Advisory Council.

2009 Calendar of Board and EC Meetings

Date	Meeting	Location
March 26	Board of Directors	Houston – Marriott IAH
June 25	Board of Directors Meeting and Meeting of the Members	Houston – Marriott IAH
September 24	Board of Directors	Houston – Marriott IAH
December 10	Board of Directors	Houston – Marriott IAH
February 3-5	Executive Committee (WEQ, Retail, WGQ)	Phoenix, Hosted by SRP
February 14	Advisory Council Meeting	Washington D.C. – Renaissance Washington Hotel (in conjunction with NARUC Winter Meeting)
May 12-14	Executive Committee (WEQ, Retail, WGQ)	Carmel, IN hosted by ACES Power
August 18-20	Executive Committee (WEQ, Retail, WGQ)	Colorado Springs hosted by El Paso Western Pipelines
October 27-29	Executive Committee (WEQ, Retail, WGQ)	Richmond, VA hosted by Dominion