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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NAESB Retail Executive Committee Meeting -- Wednesday, February 4, 10 am to 4 pm MST
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Attire – Business Casual -- Working buffet lunch will be provided.

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NORTH AMERICAN ENERGY STANDARDS BOARD
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	Director 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	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	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 (TBA) is the WEQ vice chairman.

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NORTH AMERICAN ENERGY STANDARDS BOARD
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
Jansen Pollock	Manager of Regulatory Affairs, Constellation NewEnergy	12-31-2010
DISTRIBUTORS SEGMENT		
Ruth Kiselewich	Director, Demand Side Management Programs, Baltimore Gas & Electric Company (MAAC NERC Region)	12-31-2009
Patrick Eynon	Supervisor – Retail Access, Ameren Services	12-31-2009
Judy Ray	Industrial Segment Manager – Contract Administrator, Alabama Power Company (SERC NERC Region)	12-31-2010
Mary Edwards	Senior Customer Choice Analyst – Regulation and Competition, Dominion Virginia Power (SERC NERC Region)	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
Gary Hinners	Director- West regulatory Issues, Reliant Energy, Inc.	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	Not IOU Affiliated
Mark Mitchell	Manager of Power Marketing Supply and Trading Department, 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:
Robert Williams	Director of Regulatory Affairs, Florida Municipal Power Agency	12-31-2010	Muni/Coop
V A C A N C Y		12-31-2009	Muni/Coop
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			
Stu Bresler	General Manager, Market Operations, PJM Interconnection	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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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
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
Edison G. Elizeh	PacifiCorp	IOU Affiliated
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, 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	
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	

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

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January 22, 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

NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETINGS
Hosted by Salt River Project at the PERA Club, 1 East Continental Drive, Tempe, Arizona, 85281
February 3-5, 2009

First, let me thank Lori-Lynn Pennock and Salt River Project for the generosity and commitment to the NAESB organization through hosting this series of meetings. Without such support, it would be very difficult to maintain the NAESB budget and provide various locations around the country to 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 Phoenix/Tempe, AZ on February 3-5, hosted by Salt River Project at the PERA Club, 1 East Continental Drive, Tempe, Arizona, 85281. Below are the meeting arrangements:

Where:	PERA Club, 1 East Continental Drive, Tempe, Arizona, 85281 Meeting Room: Mesquite Hall – 1st floor of the Clubhouse for all EC meetings
Contact:	Veronica Thomason, 713-356-0060
When:	Tuesday, Feb. 3 -- 10:00 a.m. to 4:00 p.m. Mountain Standard Time[1] – Wholesale Electric Quadrant Wednesday, Feb. 4 -- 10:00 a.m. to 4:00 p.m. Mountain Standard Time – Retail Gas/Electric Quadrants Thursday, Feb. 5 -- 10:00 a.m. to 4:00 p.m. Mountain Standard Time – 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/ec020309ma4.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] Mountain Standard Time this time of year is one hour earlier than Central Time – so 10 am C in Houston would be 9 am MST in Phoenix/Tempe.

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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 rooms in the PERA Club, and available via conference call and web cast for WEQ ESS/ITS, and upon advance request[2] for Joint IR/Technical. The details are:

- Tue, Feb 3 — WGQ Joint IR/Technical (day one) 9:00 a.m. to 4:00 p.m. MST
  Meeting Room: Big Horn Terrace – labeled "BHT" – South of Clubhouse
- Wed, Feb 4 — WGQ Joint IR/Technical (day two) 9:00 a.m. to 4:00 p.m. MST
  Meeting Room: Big Horn Terrace – labeled "BHT" – South of Clubhouse

  WEQ ESS/ITS (day one) 9:00 a.m. to 4:00 p.m. MST
  Meeting Room: Centennial Conference Center – labeled "Board Room" – West of the Clubhouse
- Thu, Feb 5 — WEQ ESS/ITS (day two) 9:00 a.m. to 3:00 p.m. MST
  Meeting Room: Centennial Conference Center – labeled "Board Room" – West of the Clubhouse

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*

[2] To set up phone call in capability for the WGQ IR/Technical meetings requires notice by January 30, 2009. Web cast will not be available for this meeting.

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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING
WHOLESALE ELECTRIC QUADRANT DRAFT AGENDA
Tuesday, February 3, 2009 – 10:00 am to 4:00 pm MST
Mesquite Hall – 1st floor of the Clubhouse

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/ec020309a.doc

2. Wholesale Electric Quadrant Draft Minutes (simple majority to approve)
   - Adoption of the WEQ EC Meeting Minutes

3. Discussion, consideration and vote on recommendation R07007 (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)): (super-majority vote)
   - Recommendation: http://www.naesb.org/pdf3/weq_2008_api_6m_r07007_rec.doc
   - Comments Provided from SRS: http://www.naesb.org/pdf4/weq_101008_6m_srs.doc

4. Discussion, consideration and vote on recommendation R07020 (Delayed for action at the November 2008 WEQ EC meeting, WEQ Annual Plan Item 6b -- Develop a NAESB time and inadvertent management business practice that provides additional inadvertent payback options and improved time control) (super majority vote)
   - Recommendation: http://www.naesb.org/pdf3/weq_2008_api_6b_r07020_rec_clean.doc
   - Recommendation Redlined: http://www.naesb.org/pdf3/weq_2008_api_6b_r07020_rec_redline.doc
   - Comments due Oct. 24, and considered on November 3, 2008:
     C. Feagans, TVA: http://www.naesb.org/pdf4/weq_092308_6b_r07020tva.doc
     W. Franklin, Entergy Services: http://www.naesb.org/pdf4/weq_092308_6b_r07020entergy.pdf
     NAESB SRS: http://www.naesb.org/pdf4/weq_092308_6b_r07020srs.doc
     L. Larson, Otter Tail Power Company: http://www.naesb.org/pdf4/weq_092308_6b_r07020otter_tail.doc
     D. Klempel, Basin Electric Power Cooperative: http://www.naesb.org/pdf4/weq_092308_6b_r07020bepc.doc
     J. Cyrulewski, JDRJC Associates: http://www.naesb.org/pdf4/weq_092308_6b_r07020jdrjc.doc
     E. Davis, Entergy: http://www.naesb.org/pdf4/weq_092308_6b_r07020entergy.doc
     J. Knight, Great River Energy: http://www.naesb.org/pdf4/weq_092308_6b_r07020gre.doc
     D. Koehn, Bonneville Power Administration: http://www.naesb.org/pdf4/weq_092308_6b_r07020bpa.doc
     D. Kimm, MidAmerican Energy Company: http://www.naesb.org/pdf4/weq_092308_6b_r07020mec.doc
     M. Goldberg, ISO New England: http://www.naesb.org/pdf4/weq_092308_6b_r07020isone.doc
     A. Rodriquez, NERC Staff: http://www.naesb.org/pdf4/weq_092308_6b_r07020nerc.doc
     M. Desselle, NAESB Chairman and K. York, NAESB WEQ EC Chairman:
     http://www.naesb.org/pdf4/weq_092308_6b_r07020desselle_york.doc

5. Discussion, consideration and vote on minor correction submitted by Barbara Rehman (simple majority vote):
   - Minor Correction: http://www.naesb.org/pdf4/weq_ec020309w1.doc
   - Minor Correction Process: http://www.naesb.org/misc/MC_Procedure_112108.doc

6. Review, discussion and possible change of reporting relationship of JISWG if action is taken, it would be a simple majority vote) – http://www.naesb.org/pdf2/weq_jiswg_mission.doc

7. 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)

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

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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING
WHOLESALE ELECTRIC QUADRANT DRAFT AGENDA
Tuesday, February 3, 2009 – 10:00 am to 4:00 pm MST
Mesquite Hall – 1st floor of the Clubhouse

9. Update on specific issues (no votes or action to be taken unless noted):
   - Order No. 890 Plan: http://www.naesb.org/pdf4/order890_121708_naesb_workplan_clean.doc
   - DSM-EE efforts: http://www.naesb.org/pdf4/weq_2008_api_5a_rec.doc
   - Efforts to resolve rollover rights with FERC input (simple majority vote may be needed to redirect effort back to ESS/ITS) – http://www.naesb.org/pdf4/weq_ec010809w3.doc, http://www.naesb.org/pdf4/weq_ec010809w5.doc, http://www.naesb.org/pdf4/weq_ec010809a1.doc
   - Glossary Efforts

10. Subcommittee Updates and Plan Updates (no votes or action to be taken):
   - Triage Subcommittee
   - Business Practices Subcommittee (BPS)
   - Time Inadvertent Management Task Force
   - Electronic Scheduling (ESS) and Information Technology (ITS) Subcommittees
   - Joint Interchange Scheduling Working Group (JISWG)
   - Standards Review Subcommittee (SRS)

11. Board of Directors, Board Committee and Regulatory Updates (no votes or action to be taken)
   - Board Updates
   - Wholesale Gas and Retail key activities – WGQ Annual Plan, Retail Annual Plan -- http://www.naesb.org/pdf4/draft_wgq_2009_annual_plan.doc, http://www.naesb.org/pdf4/draft_retail_2009_annual_plan.doc
   - Update on Board Retail Structure Review Committee efforts – http://www.naesb.org/pdf4/rsrc011509w2.doc
   - April 1-2, 2009 Workshop Announcement
   - Advisory Council Meeting February 14, 2009
   - NARUC Winter Session – February 15-18, 2009

12. Other Business

Adjourn

Attire – Business Casual

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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING
RETAIL QUADRANTS DRAFT AGENDA
Wednesday, February 4, 2009 – 10:00 a.m. to 4:00 p.m. MST
Mesquite Hall – 1st floor of the Clubhouse

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/ec020309a.doc

2. Retail Quadrant Draft Minutes (simple majority to approve)
   - Adoption of the Retail EC Meeting Minutes

3. Discussion, consideration and vote on recommendations for which the comment period ends on January 22, 2009: (super-majority votes for each)
   - Recommendation 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/pdf4/2008_retail_api_2a_rec_part2.doc
   - 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: http://www.naesb.org/pdf4/2008_retail_api_3iv_v_rec_part1.doc, Attachment: http://www.naesb.org/pdf4/2008_retail_api_3iv_v_rec_part1_attach.ppt
   - 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): http://www.naesb.org/pdf4/2008_retail_api_3iv_v_rec_part2.doc

4. Discussion, consideration and vote on minor correction submitted by BPS (simple majority vote):
   - Minor Correction: http://www.naesb.org/pdf4/retail_ec020409w1.doc and attachment http://www.naesb.org/pdf4/retail_ec020409w2.ppt
   - Minor Correction Process: http://www.naesb.org/misc/MC_Procedure_112108.doc

5. Retail Publication Schedule Discussion (no votes to be taken) – http://www.naesb.org/pdf3/update091008w5.doc

6. DSM-EE efforts (no votes to be taken): http://www.naesb.org/pdf4/weq_2008_api_5a_rec.doc (WEQ), http://www.naesb.org/pdf4/dsmee_group2_011509w2.doc (Retail)

7. Subcommittee Updates and Plan Updates – no votes to be taken
   - Triage Subcommittee
   - Business Practices Subcommittee (BPS)
   - Information Requirements Subcommittee (IR)
   - Technical Electronic Implementation Subcommittee (TEIS)
   - Texas Task Force
   - Glossary Subcommittee

8. 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

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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING
RETAIL QUADRANTS DRAFT AGENDA
Wednesday, February 4, 2009 – 10:00 a.m. to 4:00 p.m. MST
Mesquite Hall – 1st floor of the Clubhouse

9. Board of Directors, Board Committee and Regulatory Updates (no votes or action to be taken)
   - Board Updates
   - Wholesale Gas and Electric key activities – WGQ Annual Plan, WEQ Annual Plan -- http://www.naesb.org/pdf4/draft_wgq_2009_annual_plan.doc (WGQ)
   - Update on Board Retail Structure Review Committee efforts – http://www.naesb.org/pdf4/rsrc011509w2.doc April 1-2, 2009 Workshop Announcement
   - Advisory Council Meeting February 14, 2009
   - NARUC Winter Session – February 15-18, 2009

10. Other Business

Adjourn

Attire – Business Casual

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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING
WHOLESALE GAS QUADRANT DRAFT AGENDA
Thursday, February 5, 2009 – 10:00 a.m. to 4:00 p.m. MST
Mesquite Hall – 1st floor of the Clubhouse

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/ec020309a.doc

2. WGQ Draft Minutes (simple majority to approve)
   - Adoption of the WGQ EC Meeting Minutes

3. Discussion, consideration and vote on recommendations for which the comment period ended on January 19, 2009 and none were submitted: (super-majority votes for each)
   - Recommendation R06016- "Modify NAESB WGQ Standard No: 4.3.69 to expand the 'Submit' function to include sending records to the TSP for processing from the Matrix to now include the Form as well.": http://www.naesb.org/pdf4/r06016_rec.doc
   - Recommendation R08007- "Modify NAESB WGQ Standard No: 4.3.16 to refer to Appendix C for valid display and download formats.": http://www.naesb.org/pdf4/r08007_rec.doc

4. Update on specific issues – no votes to be taken:
   - Confirmation of Publication Schedule for Version 1.9
   - Use of the Minor Correction Procedure for modifications to coding – http://www.naesb.org/misc/BLANK_REC_FORM_MCC_120508.doc, http://www.naesb.org/misc/MC_Procedure_112108.doc

5. Subcommittee Updates and Plan Updates – no votes to be taken
   - Triage Subcommittee
   - Business Practices Subcommittee (BPS)
   - Information Requirements (IR) Subcommittee
   - Technical Subcommittee
   - Electronic Delivery Mechanism (EDM) Subcommittee
   - Interpretations Subcommittee
   - Contracts Subcommittee

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

7. Board of Directors, Board Committee and Regulatory Updates (no votes or action to be taken)
   - Board Updates –
   - Wholesale Electric and Retail key activities – WEQ Annual Plan, Retail Annual Plan -- 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
   - April 1-2, 2009 Workshop Announcement
   - Advisory Council Meeting February 14, 2009
   - NARUC Winter Session – February 15-18, 2009

8. Other Business

   Adjourn

Attire – Business Casual

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January 26, 2009

TO: NAESB Retail Quadrants Executive Committee and Interested Industry Participants

FROM: Jonathan Booe, NAESB Staff Attorney

RE: REQ/RGQ Executive Committee Meeting Draft Minutes – November 5, 2008

NORTH AMERICAN ENERGY STANDARDS BOARD
RETAIL ELECTRIC AND RETAIL GAS QUADRANTS'
JOINT EXECUTIVE COMMITTEE MEETING
Hosted by Dominion – Glen Allen, Virginia
Wednesday, November 5, 2008 – 1:00 pm to 4:00 pm Eastern
DRAFT MINUTES

1. Welcome

Mr. Novak called the meeting to order and welcomed the Retail Gas Quadrant ("RGQ") and Retail Electric Quadrant ("REQ") Executive Committee ("EC") members and other participants. Mr. Booe gave the antitrust guidance and called the roll of the RGQ and REQ EC membership and alternates. Quorum was established. The other participants, both in attendance and on the phone, introduced themselves.

2. Adoption of Wholesale Gas Draft Agenda and Minutes

Retail Quadrants Draft Agenda: Mr. Novak reviewed the agenda. Mr. Precht moved to adopt the agenda and Mr. Nishida seconded the motion. The motion passed without opposition. The participants reviewed the May 14, 2008 Retail Quadrants EC draft minutes. Mr. Precht offered a few minor corrections. Mr. Nishida moved to adopt the minutes as revised and Mr. Precht seconded the motion. The motion passed a simple majority vote. The final minutes from the May 14, 2008 Joint Retail EC meeting can be found on the NAESB web site through the following link: http://naesb.org/pdf4/retail_ec051408fm.doc.

3. Retail Publication Schedule Discussion

Ms. McQuade reviewed the Retail Publication Schedule document contained in the meeting materials. She noted that the document identifies all of the final actions that will be included in the Retail Version 2 publication and asked the participants to determine a publication timeline. Mr. Precht stated that the he recalled the participants targeting first quarter 2009 as a publication date. Mr. Novak concurred. Mr. Precht stated that the RGQ Business Practice Subcommittee ("BPS") voted five recommendations out of subcommittee during the November 3-4, 2008 meeting that could be approved at joint EC meeting in February. The participants discussed the possibility of having a single topic EC meeting to approve the recommendations before the EC meeting in February and determined that the publication date should be set for the end of the 1st quarter 2009. Ms. Rager noted that the technical implementation for the Texas Registration Agent Model has been completed and that the group is working to finish the data dictionaries. Mr. Novak stated that the Retail Quadrants must publish at the end of the 1st quarter 2009 because the Wholesale Gas Quadrant is going to publish WGQ Version 1.9 at the end of the 2nd quarter 2009.

4. DSM-EE Efforts

Ms. McQuade provided an update of the wholesale DSM/EE effort. She stated that 45 different demand response programs were reviewed and that measurement and verification standards were developed based on a number of characteristics from those programs. The ISO/RTOs did a tremendous amount of work to develop these standards that have been out for a formal comment period and will be reviewed at a December 2, 2008 meeting hosted by Southern Company in Birmingham, Alabama. Mr. Precht stated that the retail side of the DSM/EE effort started out the same way as the wholesale side by putting together a matrix of nine different programs that are being used in the retail area. He stated that the retail work group has put together a rough outline for the retail model business practices based upon the matrix and that the subject matter experts are meeting November 12-13, 2008 in Baltimore

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Maryland to continue to develop the outline and ultimately the model business practices. He also noted that the retail side has used the wholesale standards as a foundation from which to build the retail standards.

5. eTariff effort

Ms. McQuade provided an update of the eTariff effort. She noted that FERC Order No. 714 has been issued and that in 18 months companies will be required to file their tariff's with the FERC electronically using the NAESB xml schema based standards. NAESB held a well attended training course on the standards and the process for electronically filing with FERC in Baltimore, Maryland on October 21, 2008. Two additional courses are being offered in Austin, Texas and New Orleans, Louisiana on November 21, 2008 and January 12, 2009, respectively. Ms. McQuade noted that course provides 6.25 hours of CLE credits and that the FERC will be holding a technical conference concerning electronically filing on December 3, 2008 in Washington D.C. Mr. Novak noted that FERC Order No. 714 has some additional requirements that could be applicable to companies during the transition period regarding electronic filing.

6. Subcommittee Updates and Plan Updates

Triage Subcommittee: Ms. McQuade reviewed the triage documents distributed on October 20, 2008 and September 8, 2008 on page 131 of the assembled Retail EC Meeting Materials. Mr. Novak stated that the RGQ BPS will be involved in addressing request R08015 concerning an update to the NAESB Trading Partner Agreement as the RGQ supports the standard contract.

Business Practices Subcommittee: Mr. Precht provided an update of the BPS activities. He stated that the BPS conducted two reviews of the model business practices. The first review was a prepublication cleanup to ensure that all of the business practice language is consistent. The second review was to determine what modifications must be made to the existing business practices to incorporate the registration agent into areas other than customer enrollment drop and account information change. The recommended modifications resulting from the review were voted out during the November 4, 2008 meeting and will be sent for a 30 day formal comment period. Mr. Precht also noted that the BPS would be reviewing the modifications being proposed to the NAESB Trading Partner Agreement to determine the affect on the Retail Quadrants.

Information Requirements (IR) and Technical Electronic Implementation Subcommittees (TEIS): Ms. Rager provided an update of the IR and TEIS activities. She stated that the Texas Task Force completed the guidelines for the ad hoc piece for the registration agent as well as the customer enrollment drop and account information change. Mr. Precht noted that nothing would have to be done to the model business practices as a result of the work completed by the Texas Task Force.

Glossary Subcommittee: Mr. Edwards stated that the Glossary subcommittee has met twice since the last Retail EC meeting and during those meetings amended and developed 14 terms which are associated with Book 11 in support of the registration agent model. Ms. McQuade asked if the subcommittee has reviewed the definitions that have been developed on the wholesale electric side in response to demand response. Ms. Edwards responded that the subcommittee has not, at this point, conducted that review. Mr. Precht and Mr. Novak suggested that the subcommittee conduct a review to ensure that the definitions created on the wholesale electric side are not in conflict with the current retail definitions and to determine if any definitions should be added to the retail glossary. Ms. McQuade noted that it would not be premature to conduct the review now that the draft recommendation containing the terms will likely be approved at the December 2, 2008 meeting in Alabama.

7. Review, discuss, identify changes and vote to approve changes to the 2008 Annual Plan to be proposed to the Board of Directors and the process for 2009 Annual Plan creation.

Mr. Novak reviewed the 2008 Annual Plan. The participants addressed every item on the plan and made modifications. Ms. McQuade asked the participants if there was any opposition to the modifications made to the 2008 Annual Plan. No opposition was offered. The modifications made to the 2008 Annual Plan can be found on the NAESB website through the following link: http://naesb.org/pdf4/retail_ec110508a3.doc. Mr. Precht and Mr. Novak stated that they would contact the Retail Quadrant subcommittee chairs regarding the creation of the 2009 Retail Annual Plan.

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8. **Discussion and consideration of minor corrections, including discussion on comments submitted and possible votes**

Mr. Precht reviewed the minor corrections submitted by the Retail BPS. Minor corrections were made to Retail Book 0, Book 1, Book 2, Book3, Book 4, Book 6, Book 8, Book 9, Book 10a, Book 10b, Book 10c, Book 11. Mr. Precht stated that the minor corrections are the result of the two reviews discussed during the BPS update. He noted that the modifications are not substantive and that they are submitted for the purpose of ensuring the standards remain consistent. Mr. Precht made a motion to adopt the minor corrections submitted by the BPS. Ms. Edwards seconded the motion. The motion passed a simple majority vote without opposition.

9. Board of Directors, Board Committee and Regulatory Updates

Board Updates: Ms. McQuade reviewed the materials provided for the Board update and policy changes. She noted that at the September 25, 2008 Board of Directors meeting, the Board voted to modify the NAESB Certificate, Bylaws, and Standard Operating Practices, as well as increase membership fees and change the revenue structure. Ms. McQuade stated that Certificate and Bylaws modification requires that a segment must be fully populated at the EC level and Board level in order to exercise a segment block. For a segment to be considered fully populated at the Board level 80% of a segments seats must be filled and 100% of the seats must be filled at the EC level. Ms. McQuade noted that the Board action to modify the certificate will require the support of 90% of the membership in order to be ratified. The Board approved a membership fee increase from $5,000 to $6,500, which has not been modified since 1996. The increased revenue from the membership fee adjustment should help address some budget issues both now and proposed should the fee remain at the $5000 level.. A drop down box reminding users of the NAESB copyright policy is being added to the website, and software that will prohibit users from downloading the standards to multiple computers is currently being negotiated. NAESB is also raising the price of its work product and will now charge non-members $900 for the NAESB standards. This action was proposed in response to extensive research on the price point of work products distributed by other organizations.

Wholesale Electric and Gas Activities; Regulatory Updates: Ms. McQuade briefly reviewed the WEQ 2008 Annual Plan and the WGQ 2008 Annual Plan. Mr. Precht noted that the Trading Partner Agreement item included on the WGQ Plan should be also be added to the Retail 2008 Annual Plan. Mr. Novak noted that the WGQ EC will discuss FERC Order No. 717 at the meeting tomorrow.

10. New Business

Process for Election of 2009 Officers: Ms. McQuade stated that the NAESB office will be asking the organization's officers if they are interested in holding their position in 2009 later in the month. If participants wish to run against the officers or for empty positions they need to give the NAESB office notice as soon as possible.

11. Adjourn

Mr. Precht moved to adjourn the meeting and Mr. Nishida seconded. The meeting was adjourned at 2:22 PM Eastern.

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11. Attendance Record

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

RETAIL ELECTRIC QUADRANT EXECUTIVE COMMITTEE		ATTENDANCE
SUPPLIERS SEGMENT		
Bill Barkas	Dominion Retail, Inc.	
Jansen Pollock	Constellation NewEnergy	
DISTRIBUTION SEGMENT		
Ruth Kiselewich	Baltimore Gas and Electric Company	
Terry Moran	PSEG	
Judy Ray	Alabama Power Company	
Mary Edwards	Dominion Virginia Power	In Person
END USER SEGMENT		
SERVICE PROVIDERS SEGMENT		
Jim Minneman	PPL Solutions, LLC	Phone
Jennifer Teel	EC Power	
Susan Munson	Electric Reliability Council of Texas	Phone

Other Participant Attendance

Participant	Organization	Attendance
Jonathan Booe	NAESB	In Person
Bill Lohrman	FERC	In Person
Rae McQuade	NAESB	In Person
Lou Oberski	Dominion	In Person
Denise Rager	NAESB	In Person
Dorothy Rull	Preferred Legal	In Person

North American Energy Standards Board

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January 23, 2009

TO: NAESB Retail Electric and Gas Executive Committees and Interested Industry Participants

FROM: Jonathan Booe, NAESB Staff Attorney

RE: Retail Executive Committees Conference Call Regarding the Retail Quadrants 2009 Annual Plan – Draft Minutes – January 21, 2009

NORTH AMERICAN ENERGY STANDARDS BOARD
RETAIL ELECTRIC (REQ) AND RETAIL GAS (RGQ) QUADRANTS
JOINT EXECUTIVE COMMITTEE MEETING
Wednesday, January 21, 2009 – 2:00 pm to 4:00 pm Central
DRAFT MINUTES

1. Welcome

Mr. Novak called the meeting to order and welcomed the Retail Electric (REQ) and Retail Gas (RGQ) Executive Committee (EC) members and other participants. Mr. Booe gave the antitrust guidance and REQ and RGQ EC 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. Review of Comments and Adoption of 2009 Retail Annual Plan

Mr. Novak reviewed the Proposed 2009 Annual Plan with the Retail Comments Included. He noted that the work paper incorporates the modifications to the 2009 Retail Annual Plan proposed by National Fuel and Baltimore Gas and Electric. The participants reviewed each item included in the proposed 2009 Annual Plan. Modifications were made to the plan based upon the discussion of the participants. These modifications can be found on the NAESB website through the following hyperlink: http://naesb.org/pdf4/retail_ec012109a1.doc.

Mr. Precht made a motion to adopt the 2009 Retail Annual Plan as revised by the Retail EC members. Ms. Munson seconded the motion and the motion passed a simple majority vote without opposition. The adopted 2009 Retail Annual Plan will be reviewed at the February 4, 2009 WGQ EC meeting.

3. New Business

Mr. Jones requested that the Retail EC members discuss books nine and ten and the TEIS work at the February 4, 2009 meeting with Ms. Teel.

4. Adjourn

Ms. Kiselewich moved to adjourn the meeting and Mr. Precht seconded. The meeting was adjourned at 2:55 PM Central.

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5. Executive Committee Attendance

RETAIL GAS QUADRANT EXECUTIVE COMMITTEE		ATTENDANCE
SUPPLIERS SEGMENT		
Richard Zollars	Dominion Retail, Inc.	
DISTRIBUTORS SEGMENT		
Dan Jones	Duke Energy	Present
Leslie Nishida	Wisconsin Public Service Corporation	
Michael Novak	National Fuel Gas Distribution Corporation	Present
Phil Precht	Baltimore Gas and Electric Company	
END USERS SEGMENT		
SERVICE PROVIDERS SEGMENT		

RETAIL ELECTRIC QUADRANT EXECUTIVE COMMITTEE		ATTENDANCE
SUPPLIERS SEGMENT		
Bill Barkas	Dominion Retail, Inc.	
Jansen Pollock	Constellation New Energy	
DISTRIBUTORS SEGMENT		
Ruth Kiselewich	Baltimore Gas & Electric Company	Present
Patrick Eynon	Ameren Services	Present
Judy Ray	Alabama Power Company	Present
Mary Edwards	Dominion Virginia Power	Present
END USERS SEGMENT		
SERVICE PROVIDERS SEGMENT		
Jim Minneman	PPL Solutions LLC	
Jennifer Teel	EC Power	
Susan Munson	Electric Reliability Council of Texas	Present

6. Other Participants in Attendance

Participant	Organization
Jonathan Booe	NAESB
Cade Burks	EC Power
Debbie McKeever	Oncor
Rae McQuade	NAESB
Denise Rager	NAESB

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

Requesters: **Retail Texas Task Force**
Request No.: **2008 Retail Annual Plan Item 2a, Part 2:**
Request Title: **Customer Enrollment, Drop and Account Information Change including Using a Registration Agent (Data Dictionaries)**

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:

_X_ Initiation
___ Modification
___ Interpretation
___ Withdrawal

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

Per Recommendation:

_X_ Initiation
___ Modification
___ Interpretation
___ Withdrawal

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

3. RECOMMENDATION

SUMMARY:

The Joint Retail Electric and Retail Gas Quadrants' Retail Texas Task Force submits this Recommendation for the 2008 Retail Annual Plan Item No. 2a, Part 2 – Customer Enrollment, Drop and Account Information Change including using a Registration Agent (Data Dictionaries). These Data Dictionaries support the Technical X12 Implementation Guidelines (Part 1) which detail the technical electronic communications for exchanging Customer Enrollment Information between Market Participants in competitive electric markets where a Centralized Registration Agent exists. Part 1 of this Recommendation contains the initial set of Technical X12 Implementation Guidelines including using a Registration Agent, which completed the thirty-day formal comment period on August 22, 2008.

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

Requesters: **Retail Texas Task Force**
Request No.: **2008 Retail Annual Plan Item 2a, Part 2:**
Request Title: **Customer Enrollment, Drop and Account Information Change including Using a Registration Agent (Data Dictionaries)**

RECOMMENDED STANDARDS:

RXQ.11.6.1 Enrollment Request

Data Dictionary

Data Elem. Name	Description	Use	Condition	Comments [Options]
Transaction Purpose	Identifies transaction as a request or response	M		[13]
Reference Identification	Unique ID created by the originator of the enrollment request; will be returned on the enrollment response (accept or reject)	M		
Date	Date this transaction was created by the sender's application system.	M		
Action Code	Identifies sub type of Enrollment Request transaction	M		[1, 3, 16]
Bill To Name	Identifies the customers Billing Name	O		
Bill To Additional Names	Additional bill to name information for the customer	O		
Bill To Address Lines	Customer Bill to Address information	O		
Bill To City	Customer Bill to City	O		
Bill To State	Customer Bill to State	O		
Bill To Zip	Customer Bill to Zip	O		
Bill To Country	Customer Bill to Country	O		
Registration Agent Name	Identifies the Registration Agent Name	M		
Registration Agent Id Number	Entity ID (DUNS Number or DUNS+4 Number) of the registration agent	M		
Entity Id Code	Identifies the sender or receiver of the transaction	M		[40, 41]
Supplier Name	Identifies the Supplier Name	M		
Supplier ID Number	Entity ID (DUNS Number or DUNS+4 Number) of the supplier			
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		
Customer Name	Identifies the Customer Name	M		
Customer Zip	Identifies the customer service address zip; Used for validation of customer	M		
Customer Contact Name	Name of contact for Customer	O		
Customer Telephone Number1	Identifies the customer primary telephone number	O		
Customer Telephone Number2	Identifies the customer secondary telephone number	O		

Data Elem. Name	Description	Use	Condition	Comments [Options]
Permit Name	Identifies the name on a customer permit	O		
Customer Notification Name	Identifies the customer notification contact; used to notify customer of impending enrollment event	M		
Customer Notification Additional Name	Additional customer notification names	O		
Customer Notification Address Lines	Customer notification address information	M		
Customer Notification City	Customer notification City	M		
Customer Notification State	Customer notification State	M		
Customer Notification Zip	Customer notification Zip	M		
Customer Notification Country	Customer notification Country	M		
Service Identifier	Identifies type of service	M		[EL]
Service Requested	Identifies services being requested	M		[CE, HI, HU, MVI, MVO, SW]
Maintenance Type Code	Identifies type of 814	M		[021, 001, 024]
Bill Type	Identifies party that will deliver the bill	M		[LDC, ESP, DUAL]
Bill Calculator	Identifies party that will calculate bill	M		[DUAL]
Priority Code	Distribution Company priority code	O	RBC	
ESI ID	Electric Service Identifier	M		
Special Needs indicator	Identifies if a customer is on life support or not	M		[Y, N]
Rescission Waiver Flag	Flag to identify if a customer waives rescission rights	O		[Y]
Move In Date	Specifies the customer requested move in date	O		
Off Cycle Enrollment Date	Specifies an off-cycle enrollment date for a customer switch	O		
First Available Switch Date	Specifies the first available switch date determined by the Registration Agent	O		

RXQ.11.6.2 Enrollment Reject Response

Data Dictionary

Data Elem. Name	Description	Use	Condition	Comments [Options]
Transaction Purpose	Identifies transaction as a request or response	M		[11]
Reference Identification	Unique ID created by the originator of the enrollment response;	M		
Date	Date this transaction was created by the sender's application system.	M		
Request Reference Identification	Original Transaction identifier from the Enrollment Request	M		
Action Code	Identifies sub type of Enrollment Response transaction	M		[2, 17]
Registration Agent Name	Identifies the Registration Agent Name	M		
Registration Agent Id Number	Entity ID (DUNS Number or DUNS+4 Number) of the registration agent	M		
Entity Id Code	Identifies the sender or receiver of the transaction	M		[40, 41]
Supplier Name	Identifies the Supplier Name	M		
Supplier ID Number	Entity ID (DUNS Number or DUNS+4 Number) of the supplier			
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		
Service Identifier	Identifies type of service	M		[EL]
Service Requested	Identifies services being requested	M		[CE, HI, HU, MVI, MVO, SW]
Accept Reject Indicator	Indicates if response is accept or reject	M		[U]
Maintenance Type Code	Identifies type of 814	M		[021]
ESI ID	Electric Service Identifier	M		
Reject Code	Reject code for the enrollment request	M	RBC	
Reject Code Description	Description of reject code	O		

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

Requesters: Retail Texas Task Force
Request No.: 2008 Retail Annual Plan Item 2a, Part 2:
Request Title: Customer Enrollment, Drop and Account Information Change including Using a Registration Agent (Data Dictionaries)

RXQ.11.6.3 Enrollment Confirmation

Data Dictionary

Data Elem. Name	Description	Use	Condition	Comments [Options]
Transaction Purpose	Identifies transaction as a request or response	M		[11]
Reference Identification	Unique ID created by the originator of the Enrollment Confirmation.	M		
Date	Date this transaction was created by the sender's application system.	M		
Request Reference Identification	Original Transaction identifier from the Enrollment Request	M		
Action Code	Identifies sub type of Enrollment confirmation transaction	M		[4, 5]
Registration Agent Name	Identifies the Registration Agent Name	M		
Registration Agent Id Number	Entity ID (DUNS Number or DUNS+4 Number) of the registration agent	M		
Entity Id Code	Identifies the sender or receiver of the transaction	M		[40, 41]
Supplier Name	Identifies the Supplier Name	M		
Supplier ID Number	Entity ID (DUNS Number or DUNS+4 Number) of the supplier			
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		
Customer Name	Identifies the Customer Name	M		
Customer Address	Identifies customer service address lines	M		
Customer City	Identifies customers service city	M		
Customer State	Identifies customers service state	M		
Customer Zip	Identifies the customer service address zip; Used for validation of customer	M		
Service Identifier	Identifies type of service	M		[EL]
Service Requested	Identifies services being requested	M		[CE, HI, HU, MVI, SW]
Accept or Reject Indicator	Identifies a transaction as an accept or Reject	M		[WQ]
Maintenance Type Code	Identifies type of 814	M		[021, 101]
Distribution Loss Factor Code	Identifies distribution loss factor code	M		
Status Code	Sent when status information needs to be conveyed	O		

Use Legend: **M** = Mandatory; **C** = Conditional; **SO**=Sender's Option; BC=Business Conditional; **RBC=R**etail Business Conditional

Data Elem. Name	Description	Use	Condition	Comments [Options]
Status Description	Provide more description of the status code	O		
Premise Type	Identifies the type of premise	M		[01, 20, 03]
ESI ID	Electric Service Identifier	M		
Station ID	Substation at which the TDSP's distribution system is connected to the transmission grid for the Service Delivery Point (SDP).	M		
Special Needs indicator	Identifies if a customer is on life support or not	M		[Y, N]
Service Period Start Date	Specifies the start date	M		
Meter Number	Identifies if service is unmetered or identifies the meter number	M		[ALL, None, Unmetered]
Meter Multiplier	Identifies the meter Multiplier	O		
Time of Use	Identifies time of use code	O		[41, 42, 43, 51, 71]
Number of Dials	Number of Dials from the meter, displayed as XY	O		
Load Profile	Load Profile	M		
Meter Type	Identifies the UOM and interval of the meter – i.e. KHMON, K1015	O		
Rate Code	Distribution Company Rate Code	M		
Rate Sub Class	Distribution Company Rate Sub Class	O		
Meter Owner	Identifies who owns the meter	O		[1, 2, 3, 4]
Unmetered Service Code	Identifies the code for the unmetered service	O		
Unmetered Service Description	Text describing the unmetered service code	O		
Number of Devices	Identifies the number of unmetered devices	O		
Meter Read Cycle	Identifies the cycle the meter is read	M		
Meter Cycle by Day of Month	Identifies the day of the month the meter is read	O		

RXQ.11.6.4 Cancel Request

Data Dictionary

Data Elem. Name	Description	Use	Condition	Comments [Options]
Transaction Purpose	Identifies transaction as a request or response	M		[13]
Reference Identification	Unique ID created by the originator of the cancel request	M		
Date	Date this transaction was created by the sender's application system.	M		
Request Reference Identification	Reference the Original Enrollment Request that is being cancelled	M		
Action Code	Identifies sub type of Cancel transaction	M		[8]
Registration Agent Name	Identifies the Registration Agent Name	M		
Registration Agent Id Number	Entity ID (DUNS Number or DUNS+4 Number) of the registration agent	M		
Entity Id Code	Identifies the sender or receiver of the transaction	M		[40, 41]
Supplier Name	Identifies the Supplier Name	M		
Supplier ID Number	Entity ID (DUNS Number or DUNS+4 Number) of the supplier			
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		
Customer Name	Identifies the Customer Name	M		
Customer Zip	Identifies the customer service address zip; Used for validation of customer	M		
Service Identifier	Identifies type of service	M		[EL]
Service Requested	Identifies services being requested	M		[CE]
Maintenance Type Code	Identifies type of 814	M		[024]
Cancel Code	Identifies the Cancel Code	M	RBC	
Cancel Code Description	Provides more description for the Cancel Code	O		
ESI ID	Electric Service Identifier	M		

RXQ.11.6.5 Cancel Response

Data Dictionary

Data Elem. Name	Description	Use	Condition	Comments [Options]
Transaction Purpose	Identifies transaction as a request or response	M		[11]
Reference Identification	Unique ID created by the originator of the Cancel Response	M		
Date	Date this transaction was created by the sender's application system.	M		
Request Reference Identification	Reference the original transaction number from the Cancel Request	M		
Action Code	Identifies sub type of Cancel Response transaction	M		[9]
Registration Agent Name	Identifies the Registration Agent Name	M		
Registration Agent Id Number	Entity ID (DUNS Number or DUNS+4 Number) of the registration agent	M		
Entity Id Code	Identifies the sender or receiver of the transaction	M		[40, 41]
Supplier Name	Identifies the Supplier Name	M		
Supplier ID Number	Entity ID (DUNS Number or DUNS+4 Number) of the supplier			
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		
Service Identifier	Identifies type of service	M		[EL]
Service Requested	Identifies services being requested	M		[CE]
Accept Reject Indicator	Indicates if response is accept or reject	M		[U, WQ]
Maintenance Type Code	Identifies type of 814	M		[024]
ESI ID	Electric Service Identifier	M		
Reject Code	Reject code for the Cancel request	M	RBC	
Reject Code Description	Description of reject code	O		
Cancel Code	Identifies the Cancel Code	O	RBC	
Cancel Code Description	Provides more description for the Cancel Code	O		

RXQ.11.6.6 Drop Request

Data Dictionary

Data Elem. Name	Description	Use	Condition	Comments [Options]
Transaction Purpose	Identifies transaction as a request or response	M		[13]
Reference Identification	Unique ID created by the originator of the drop request	M		
Date	Date this transaction was created by the sender's application system.	M		
Request Reference Identification	Reference the Original Dropt Request when the drop is forwarded thru the Registration Agent	M		
Action Code	Identifies subtype of Drop Transaction	M		[6, 24]
Registration Agent Name	Identifies the Registration Agent Name	M		
Registration Agent Id Number	Entity ID (DUNS Number or DUNS+4 Number) of the registration agent	M		
Entity Id Code	Identifies the sender or receiver of the transaction	M		[40, 41]
Supplier Name	Identifies the Supplier Name	M		
Supplier ID Number	Entity ID (DUNS Number or DUNS+4 Number) of the supplier			
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		
Customer Name	Identifies the Customer Name	M		
Customer Zip	Identifies the customer service address zip; Used for validation of customer	M		
Bill to Name	Identifies the customers Billing Name	M		
Bill to Additional Name	Additional bill to name information for the customer	O		
Bill to Address Line1	Customer Bill to Address information	M		
Bill to Address Line2	Customer Bill to Address information	O		
Bill to City	Customer Bill to City	M		
Bill to State	Customer Bill to State	M		
Bill to Zip	Customer Bill to Zip	M		
Bill to Country	Customer Bill to Country	O		
Bill to Contact Name	Identifies the bill to contact party	M		

Use Legend: **M** = Mandatory; **C** = Conditional; **SO**=Sender's Option; BC=Business Conditional; **RBC=R**etail Business Conditional

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

Requesters: **Retail Texas Task Force**
Request No.: **2008 Retail Annual Plan Item 2a, Part 2:**
Request Title: **Customer Enrollment, Drop and Account Information Change including Using a Registration Agent (Data Dictionaries)**

Data Elem. Name	Description	Use	Condition	Comments [Options]
Bill to Phone	Identifies the bill to contact phone	O		
Bill to Email	Identifies the bill to contact email	O		
Service Identifier	Identifies type of service	M		[EL]
Service Requested	Identifies services being requested	M		[CE, MVO]
Maintenance Type Code	Identifies type of 814	M		[002]
Drop Code	Identifies the Drop Code	M		[020, A13, CHA]
Drop Code Description	Provides more description for the Drop Code	O		
ESI ID	Electric Service Identifier	M		
Move Out Date	Identifies the date the customer is moving out of premise	O	Used on a Move out	
Service Period End Date	Identifies the date the customer's service with Supplier is ending	O	Used on a Force Move off	

RXQ.11.6.7 Drop Response

Data Dictionary

Data Elem. Name	Description	Use	Condition	Comments [Options]
Transaction Purpose	Identifies transaction as a request or response	M		[11]
Reference Identification	Unique ID created by the originator of the Drop Response	M		
Date	Date this transaction was created by the sender's application system.	M		
Request Reference Identification	Reference the original transaction number from the Drop Request	M		
Action Code	Identifies sub type of Drop Response transaction	M		[7, 25]
Registration Agent Name	Identifies the Registration Agent Name	M		
Registration Agent Id Number	Entity ID (DUNS Number or DUNS+4 Number) of the registration agent	M		
Entity Id Code	Identifies the sender or receiver of the transaction	M		[40, 41]
Supplier Name	Identifies the Supplier Name	M		
Supplier ID Number	Entity ID (DUNS Number or DUNS+4 Number) of the supplier			
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		
Service Identifier	Identifies type of service	M		[EL]
Service Requested	Identifies services being requested	M		[CE, MVO]
Accept Reject Indicator	Indicates if response is accept or reject	M		[U, WQ]
Maintenance Type Code	Identifies type of 814	M		[002]
ESI ID	Electric Service Identifier	M		
Reject Code	Reject code for the Drop request	M	RBC	
Reject Code Description	Description of reject code	O		
Move Out Date	Identifies the customer move out date if changed by the Distribution Company	O		

RXQ.11.6.8 Inspection Notification

Data Dictionary

Data Elem. Name	Description	Use	Condition	Comments [Options]
Transaction Purpose	Identifies transaction as a request or response	M		[13]
Reference Identification	Unique ID created by the originator of the inspection notification	M		
Date	Date this transaction was created by the sender's application system.	M		
Request Reference Identification	Reference the Original Enrollment Request that the inspection notification refers to	M		
Transaction Type Code	Identifies the reason for the inspection	M		[PT]
Action Code	Identifies sub type of Inspection Notification transaction	M		[28]
Registration Agent Name	Identifies the Registration Agent Name	M		
Registration Agent Id Number	Entity ID (DUNS Number or DUNS+4 Number) of the registration agent	M		
Entity Id Code	Identifies the sender or receiver of the transaction	M		[40, 41]
Supplier Name	Identifies the Supplier Name	M		
Supplier ID Number	Entity ID (DUNS Number or DUNS+4 Number) of the supplier			
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		
Customer Name	Identifies the Customer Name	M		
Customer Address Line1	Identifies the customer Address Line 1	M		
Customer Address Line2	Identifies the customer Address Line 2	O		
Customer City	Identifies the customer city	M		
Customer State	Identifies the customer state	M		
Customer Zip	Identifies the customer service address zip; Used for validation of customer	M		
Service Identifier	Identifies type of service	M		[EL]
Service Requested	Identifies services being requested	M		[CE, MVI]
Line Action Code	Identifies the type of inspection	M		[PT]

Data Elem. Name	Description	Use	Condition	Comments [Options]
Maintenance Type Code	Identifies type of 814	M		[021]
Inspection Party	Identifies the type of permit required	M		[PREMISE, TENANT, UNKNOWN]
ESI ID	Electric Service Identifier	M		
Special Needs indicator	Identifies if a customer is on life support or not	M		[Y, N]

RXQ.11.6.9 Inspection Notification Response

Data Dictionary

Data Elem. Name	Description	Use	Condition	Comments [Options]
Transaction Purpose	Identifies transaction as a request or response	M		[11]
Reference Identification	Unique ID created by the originator of the Inspection Notification Response	M		
Date	Date this transaction was created by the sender's application system.	M		
Request Reference Identification	Reference the original transaction number from the Inspection Notification Request	M		
Transaction Type Code	Identifies the reason for the inspection	M		[PT]
Action Code	Identifies sub type of Inspection Notification Response transaction	M		[29]
Registration Agent Name	Identifies the Registration Agent Name	M		
Registration Agent Id Number	Entity ID (DUNS Number or DUNS+4 Number) of the registration agent	M		
Entity Id Code	Identifies the sender or receiver of the transaction	M		[40, 41]
Supplier Name	Identifies the Supplier Name	M		
Supplier ID Number	Entity ID (DUNS Number or DUNS+4 Number) of the supplier			
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		
Service Identifier	Identifies type of service	M		[EL]
Service Requested	Identifies services being requested	M		[CE, MVI]
Accept Reject Indicator	Indicates if response is accept or reject	M		[U, WQ]
Maintenance Type Code	Identifies type of 814	M		[021]
ESI ID	Electric Service Identifier	M		
Reject Code	Reject code for the inspection notification request	M	RBC	
Reject Code Description	Description of reject code	O		

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

Requesters: Retail Texas Task Force
Request No.: 2008 Retail Annual Plan Item 2a, Part 2:
Request Title: Customer Enrollment, Drop and Account Information Change including Using a Registration Agent (Data Dictionaries)

RXQ.11.6.10 Account Information Change Request

Data Dictionary

Data Elem. Name	Description	Use	Condition	Comments [Options]
Transaction Purpose	Identifies transaction as a request or response	M		[13]
Reference Identification	Unique ID created by the originator of the Account Information Change request	M		
Date	Date this transaction was created by the sender's application system.	M		
Request Reference Identification	Original transaction reference nr when the Registration Agent forwards Account Information Change transaction to Supplier	M		
Action Code	Identifies sub type of Account Information Change transaction	M		[20, PC]
Registration Agent Name	Identifies the Registration Agent Name	M		
Registration Agent Id Number	Entity ID (DUNS Number or DUNS+4 Number) of the registration agent	M		
Entity Id Code	Identifies the sender or receiver of the transaction	M		[40, 41]
Supplier Name	Identifies the Supplier Name	M		
Supplier ID Number	Entity ID (DUNS Number or DUNS+4 Number) of the supplier			
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		
Customer Name	Identifies the Customer Name	M		
Customer Address Line 1	Identifies the Customer service Address Line 1	M		
Customer Address Line 2	Identifies the Customer service Address Line 2	O		
Customer City	Identifies the Customer service city	M		
Customer State	Identifies the customer service state	M		
Customer Zip	Identifies the customer service address zip; Used for validation of customer	M		
Customer Contact Name	Identifies the customer contact name	O		
Customer telephone number	Identifies the phone number for the customer contact	O		
Service Identifier	Identifies type of service	M		[EL]
Service Requested	Identifies services being requested	M		[MCI, MP]

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

Requesters: Retail Texas Task Force
Request No.: 2008 Retail Annual Plan Item 2a, Part 2:
Request Title: Customer Enrollment, Drop and Account Information Change including Using a Registration Agent (Data Dictionaries)

Data Elem. Name	Description	Use	Condition	Comments [Options]
Maintenance Type Code	Identifies type of 814	M		[001]
Distribution Loss Factor	Distribution Loss Factor	M		
Premise Type	Identifies the type of premise	M		[01, 20, 03]
ESI ID	Electric Service Identifier	M		
Station ID	Substation at which the TDSP's distribution system is connected to the transmission grid for the Service Delivery Point (SDP).	M		
Special Needs indicator	Identifies if a customer is on life support or not	M		[Y, N]
Power Region	Identifies the Power Region for the service location	M		
Change Code	Identifies the elements that are changing in the Account Information Change Transaction	M		
Change Effective Date	Identifies the date the change is effective	M		
Start Date for Service Delivery Point	Identifies the start date when establishing a service delivery Point	O		
End Date for Service Delivery Point	Identifies the end date when terminating a service delivery point	O		
Eligibility Date	Identifies the date the service delivery point is eligible for Opt In	O		
Entity Identifier Code	Identifies the meter action on the service delivery Point	M		[MA, MQ, MR, MX]
Meter Number	Identifies if service is unmetered or identifies the meter number	M		[ALL, None, Unmetered]
Old Meter Number	Identifies the old Meter Number when exchanging a meter at a service delivery point	O		
Meter Multiplier	Identifies the meter Multiplier	O		
Time of Use	Identifies time of use code	O		[41, 42, 43, 51, 71]
Number of Dials	Number of Dials from the meter, displayed as XY	O		
Load Profile	Load Profile	M		
Meter Type	Identifies the UOM and interval of the meter – i.e. KHMON, K1015	O		
Rate Code	Distribution Company Rate Code	M		
Rate Sub Class	Distribution Company Rate Sub Class	O		
Start Meter Read	The start read for adding a meter to a service delivery point	O		
End Meter Read	The end read when terminating a meter on a service delivery point	O		
Meter Owner	Identifies who owns the meter	O		[1, 2, 3, 4]
Meter Change Code	Identifies the meter attributes that are changing	O		
Unmetered Service Code	Identifies the code for the unmetered service	O		
Unmetered Service Description	Text describing the unmetered service code	O		
Number of Devices	Identifies the number of unmetered devices	O		
Meter Read Cycle	Identifies the cycle the meter is read	M		

Use Legend: **M** = Mandatory; **C** = Conditional; **SO**=Sender's Option; BC=Business Conditional; **RBC=R**etail Business Conditional

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

Requesters: Retail Texas Task Force
Request No.: 2008 Retail Annual Plan Item 2a, Part 2:
Request Title: Customer Enrollment, Drop and Account Information Change including Using a Registration Agent (Data Dictionaries)

Data Elem. Name	Description	Use	Condition	Comments [Options]
Meter Cycle by Day of Month	Identifies the day of the month the meter is read	O		

RXQ.11.6.12 Account Information Change Response

Data Dictionary

Data Elem. Name	Description	Use	Condition	Comments [Options]
Transaction Purpose	Identifies transaction as a request or response	M		[11]
Reference Identification	Unique ID created by the originator of the Account Information Change Response	M		
Date	Date this transaction was created by the sender's application system.	M		
Request Reference Identification	Reference the original transaction number from the Account Information Change Request	M		
Action Code	Identifies sub type of Account Information Response transaction	M		[21, PD]
Registration Agent Name	Identifies the Registration Agent Name	M		
Registration Agent Id Number	Entity ID (DUNS Number or DUNS+4 Number) of the registration agent	M		
Entity Id Code	Identifies the sender or receiver of the transaction	M		[40, 41]
Supplier Name	Identifies the Supplier Name	M		
Supplier ID Number	Entity ID (DUNS Number or DUNS+4 Number) of the supplier			
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		
Service Identifier	Identifies type of service	M		[EL]
Service Requested	Identifies services being requested	M		[CE, MCI, MP]
Accept Reject Indicator	Indicates if response is accept or reject	M		[U, WQ]
Maintenance Type Code	Identifies type of 814	M		[001]
ESI ID	Electric Service Identifier	M		
Reject Code	Reject code for the Account Information Change request	M	RBC	
Reject Code Description	Description of reject code	O		

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

Requesters:	**Retail Texas Task Force**
Request No.:	**2008 Retail Annual Plan Item 2a, Part 2:**
Request Title:	**Customer Enrollment, Drop and Account Information Change including Using a Registration Agent (Data Dictionaries)**

4. SUPPORTING DOCUMENTATION

a. Description of Request:

Develop information requirements for submitting and receiving, processing and fulfilling a customer's request to enroll with or leave a supplier (including suppliers dropping customers) and for maintaining current customer account information, and for notifying affected parties.

b. Description of Recommendation:

See Summary

c. Business Purpose:

To support Model Business Practices: 2008 Retail Annual Plan Item No. 3 (i), (ii), and (iii) – Customer Enrollment, Drop and Account Information Change Using a Registration Agent, and attachment ratified June 22, 2008.

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

May 5-6, 2008 Texas Task Force Final Minutes
June 3-4, 2008 Texas Task Force Final Minutues
June 18-19, 2008 Texas Task Force Final Minutes
October 27-28, 2008 Texas Task Force Draft Minutes

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant:

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2008 Annual Plan Item No. 3 (iv) and (v), Part 1**
Request Title: **ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent**

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:**
___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:

The Joint Retail Electric and Retail Gas Quadrants Business Practices Subcommittees submit this Recommendation for 2008 Retail Annual Plan Item No. 3 (iv) and (v) – ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent. These Model Business Practices and Models detail the processes for assigning a unique, intelligent alphanumeric Electric Service Identifier (ESI ID) for a single service delivery point (ESI ID Set-up), and for notification of modifications to information associated with that ideintifier (ESI ID Information Change). It should be noted that the term has been modified from ESI ID Change to ESI ID Information Change since it is the information associated with the ESI ID that is modified rather than the ESI ID itself. Further, during the development of these Model Business Practices, it became apparent that additional Model Business Practices were needed to address the process for the Market Participant to obtain a Customer's historical usage. These Model Businees Practices and Models were developed and are included here as additions to Book 8 – Customer Information.

RECOMMENDED STANDARDS:

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant:

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2008 Annual Plan Item No. 3 (iv) and (v), Part 1**
Request Title: **ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent**

The following Model Business Practices and Models are recommended to be added to Book 8 – Customer Information:

RXQ.8.2 Definitions

RXQ.0.2.xx **Historical Usage Confirmation:** The Uniform Electronic Transaction used to notify the Market Participant that their Historical Usage Request has been accepted.

RXQ.0.2.xx **Historical Usage Data Transaction:** The Uniform Electronic Transaction used to report a Customer's energy consumption records from the Distribution Comany.

RXQ.0.2.xx **Historical Usage Rejection:** The Uniform Electronic Transaction used to notify the Market Participant that their Historical Usage Request has been denied.

RXQ.0.2.xx **Historical Usage Request:** The Uniform Electronic Transaction used to ask for a Customer's energy consumption records from the Distribution Company.

RXQ.8.3.2 Ad Hoc Historical Usage Using a Registration Agent

RXQ.8.3.4.1 Before Market Participants send an ad hoc Historical Usage Request, they should obtain Customer authorization for its release and should retain such authorization for a period defined by the Applicable Regulatory Authority.

RXQ.8.3.4.2 The methods used by Market Participants to solicit, acquire and retain Customer authorizations should conform to all requirements set forth by the Applicable Regulatory Authority. Market Participants should take the necessary steps to prevent the dissemination of Customer Information to unauthorized persons.

RXQ.8.3.4.3 Upon request, Market Participants should provide proof of Customer authorization to the party releasing the Customer Information or the Applicable Regulatory Authority within a period defined by the Applicable Regulatory Authority.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant:

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2008 Annual Plan Item No. 3 (iv) and (v), Part 1**
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RXQ.8.3.4.4 As allowed by the Applicable Regulatory Authority and when needed, the Supplier should send an Historical Usage Request via Uniform Electronic Transaction to the Registration Agent.

RXQ.8.3.4.5 Upon receipt, the Registration Agent should send the Historical Usage Request via Uniform Electronic Transaction to the Distribution Company.

RXQ.8.3.4.6 In addition to the ESI ID and zip code, an Historical Usage Request should contain the data elements found in RXQ.8.6. At a minimum, the following information should be included:

- Distribution Company name and D-U-N-S® Number;
- Registration Agent name and D-U-N-S® Number;
- Supplier name and D-U-N-S® Number;
- Customer name, and;
- Historical usage type.

RXQ.8.3.4.7 The Distribution Company should send an Historical Usage Rejection via Uniform Electronic Transaction to the Registration Agent if either or both of the following conditions exists:

- The ESI ID in the Historical Usage Request does not exist, or;
- The Historical Usage Request does not contain the required elements.

RXQ.8.3.4.8 If the Registration Agent receives an Historical Usage Rejection from the Distribution Company, the Registration Agent should send the Historical Usage Rejection via Uniform Electronic Transaction to the Supplier.

RXQ.8.3.4.9 An Historical Usage Rejection should contain the data elements found in RXQ.8.6. At a minimum, the following information should be included:

- Distribution Company name and D-U-N-S® Number;
- Registration Agent name and D-U-N-S® Number;
- Supplier name and D-U-N-S® Number;
- Action or status indicator;
- ESI ID;
- Rejection reason code, and;
- Rejection reason.

RXQ.8.3.4.10 The Distribution Company should process the Historical Usage Request and send an Historical Usage Confirmation via Uniform

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant:

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Electronic Transaction to the Registration Agent if both of the following conditions exist:

- The ESI ID exists in the Distribution Company's system, and;
- The Historical Usage Request has the required elements.

RXQ.8.3.4.11 Upon receipt, the Registration Agent should send the Historical Usage Confirmation via Uniform Electronic Transaction to the Supplier.

RXQ.8.3.4.12 An Historical Usage Confirmation should contain the data elements found in RXQ.8.6. At a minimum, the following information should be included:

- Distribution Company name and D-U-N-S® Number;
- Registration Agent name and D-U-N-S® Number;
- Supplier name and D-U-N-S® Number;
- Historical usage type;
- Action or status indicator, and;
- ESI ID.

RXQ.8.3.4.13 After the Distribution Company has processed the Historical Usage Request, the Distribution Company should send the Historical Usage Data Transaction via Uniform Electronic Transaction to the Registration Agent.

RXQ.8.3.4.14 Upon receipt, the Registration Agent should send the Historical Usage Data Transaction via Uniform Electronic Transaction to the Supplier.

RXQ.8.3.4.15 The Historical Usage Data Transaction should contain the data elements found in RXQ.8.6. As applicable, the following information should be included:

- Distribution Company name and D-U-N-S® Number;
- Registration Agent name and D-U-N-S® Number;
- Supplier name and D-U-N-S® Number;
- ESI ID;
- Report type code;
- Meter number;
- Service period start date;
- Service period end date;
- Meter type;
- Quantity;
- Consumption;
- Transformer loss factor;
- Meter multiplier;

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant:

Requesters: **Joint REQ/RGQ BPS**
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- Power factor, and;
- Interval or non-interval.

RXQ.8.4 Models

RXQ.8.4.4 Ad Hoc Historical Usage Using a Registration Agent Process Flow

See Attachment 1, Page 1

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant:

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2008 Annual Plan Item No. 3 (iv) and (v), Part 1**
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The following Model Business Practices and Models are recommended to be added to Book 11 – Customer Enrollment, Drop and Account Information Change:

RXQ.11.2 Definitions

RXQ.0.2.xx **ESI ID Information Change:** The process by which Market Participants notify each other of modifications to an ESI-ID information.

RXQ.0.2.xx **ESI ID Information Change Confirmation:** The Uniform Electronic Transaction used to notify the Market Participant that their ESI-ID Information Change Request has been accepted.

RXQ.0.2.xx **ESI ID Information Change Rejection:** The Uniform Electronic Transaction used to notify the Market Participant that their ESI-ID Information Change Request has been denied.

RXQ.0.2.xx **ESI ID Information Change Request:** The Uniform Electronic Transaction used to ask for a Customer's energy consumption records from the Distribution Company.

RXQ.0.2.xx **ESI ID Set-up:** The process of assigning an ESI-ID to a new Customer premise and notifying Market Participants of the new ESI-ID.

RXQ.0.2.xx **ESI ID Set-up Confirmation:** The Uniform Electronic Transaction used to notify the Market Participant that their ESI-ID Set-up Request has been accepted.

RXQ.0.2.xx **ESI ID Set-up Rejection:** The Uniform Electronic Transaction used to notify the Market Participant that their ESI-ID Set-up Request has been denied.

RXQ.0.2.xx **ESI ID Set-up Request:** The Uniform Electronic Transaction used to initiate an ESI-ID Set-up.

RXQ.11.3.7 ESI ID Set - up

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant:

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2008 Annual Plan Item No. 3 (iv) and (v), Part 1**
Request Title: **ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent**

RXQ.11.3.7.1 ESI ID Set-up Requests should be submitted for the purposes described in the appropriate Governing Documents.

RXQ.11.3.7.2 The Customer contacts the Distribution Company informing them of the potential need for service at a premise address.

RXQ.11.3.7.3 The Distribution Company determines whether or not an ESI ID for that premise address exists in their system. If the ESI ID exists, the Distribution Company provides the ESI ID to the Customer and notifies them that they should select a Supplier to begin the Enrollment process.

RXQ.11.3.7.4 If the ESI ID does not exist in the Distribution Company's system, the Distribution Company should:

- establish a new ESI ID;
- provide the ESI ID to the Customer and notify them that they should select a Supplier to begin the Enrollment process, and;
- send an ESI ID Set-up Request via Uniform Electronic Transaction to the Registration Agent.

RXQ.11.3.7.5 At a minimum, the ESI ID is comprised of the Distribution Company's five-digit Department of Energy number followed by the Distribution Company's account number for the single point of delivery.

RXQ.11.3.7.6 An ESI ID Set-up Request should, at a minimum, contain the new ESI ID and zip code to enable the Registration Agent to confirm that the ESI ID Set-up Request sent is not for an ESI ID that is already established.

RXQ.11.3.7.7 The Registration Agent should send an ESI ID Set-up Rejection via Uniform Electronic Transaction to the Distribution Company if either or both of the following conditions exists:

- The ESI ID in the ESI ID Set-up Request exists, or:
- The ESI ID Set-up Request does not have the required elements.

RXQ.11.3.7.8 In addition to the new ESI ID and zip code, an ESI ID Set-up Request should contain the data elements found in RXQ.11.6. At a minimum, the following information should be included:

- Distribution Company name and D-U-N-S® Number;
- Registration Agent name and D-U-N-S® Number;
- ESI ID create date;
- Service address;
- Action or status indicator;
- Premise type;

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant:

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2008 Annual Plan Item No. 3 (iv) and (v), Part 1**
Request Title: **ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent**

- Distribution loss factor code;
- Station ID;
- Load profile code;
- Power region, and;
- Meter reading cycle.

RXQ.11.3.7.9 The Registration Agent should process the ESI ID Set-up Request and send an ESI ID Set-up Confirmation via Uniform Electronic Transaction to the Distribution Company if all of the following conditions exist:

- The ESI ID does not currently exist in the Registration Agent's system, and;
- The ESI ID Set-Up Request has the required elements.

RXQ.11.3.7.10 An ESI ID Set-up Confirmation should contain the data elements found in RXQ.11.6. At a minimum, the following information should be included:

- Distribution Company name and D-U-N-S® Number;
- Registration Agent name and D-U-N-S® Number;
- Action or status indicator, and;
- ESI ID.

RXQ.11.3.7.11 The Registration Agent should send an ESI ID Set-up Rejection via Uniform Electronic Transaction to the Distribution Company containing the applicable rejection reason code if any of the following conditions exist:

- The ESI ID currently exists in the Registration Agent's system, or;
- The ESI ID Set-Up Request does not have the required elements.

RXQ.11.3.7.12 An ESI ID Set-up Rejection should contain the data elements found in RXQ.11.6. At a minimum, the following information should be included:

- Distribution Company name and D-U-N-S® Number;
- Registration Agent name and D-U-N-S® Number;
- Action or status indicator;
- ESI ID;
- Rejection reason code, and;
- Rejection reason.

RXQ.11.3.8 ESI ID Information Change

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant:

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2008 Annual Plan Item No. 3 (iv) and (v), Part 1**
Request Title: **ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent**

RXQ.11.3.8.1 ESI ID Information Change Requests should be submitted for the purposes described in the appropriate Governing Documents.

RXQ.11.3.8.2 The Customer or Supplier contacts the Distribution Company informing them of the need for a change to a premise.

RXQ.11.3.8.3 The Distribution Company determines whether or not an ESI ID for that premise address exists in their system. If the ESI ID does not exist, the Distribution Company informs the Customer or Supplier of the appropriate method to proceed.

RXQ.11.3.8.4 If the ESI ID exists in the Distribution Company's system, the Distribution Company should send an ESI ID Information Change Request via Uniform Electronic Transaction to the Registration Agent.

RXQ.11.3.8.5 An ESI ID Information Change Request should contain the ESI ID and zip code to enable the Registration Agent to confirm that the ESI ID Information Change Request sent is for an ESI ID that is already established.

RXQ.11.3.8.6 The Registration Agent should send an ESI ID Information Change Rejection via Uniform Electronic Transaction to the Distribution Company containing the applicable rejection reason code if any of the following conditions exist:

- The ESI ID currently exists in the Registration Agent's system, or;
- The ESI ID Information Change Request does not have the required elements.

RXQ.11.3.8.7 In addition to the ESI ID and zip code, an ESI ID Information Change Request should contain the data elements found in RXQ.11.6. At a minimum, the following information should be included:

- Distribution Company name and D-U-N-S® Number;
- Registration Agent name and D-U-N-S® Number;
- Supplier name and D-U-N-S® Number;
- Effective date of change;
- Service address*;
- Action or status indicator;
- Premise type*;
- Distribution loss factor code*;
- Station id*;
- Load profile code*;
- Power region*;
- Meter reading cycle*;

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant:

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2008 Annual Plan Item No. 3 (iv) and (v), Part 1**
Request Title: **ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent**

- Reason for change;
- ESI ID end date (if ESI ID retiring);
- Meter number*;
- Meter type*;
- Number of dials*;
- Unmetered service type*;
- Meter reading cycle*;
- Start meter reading*;
- End meter reading*;
- Meter owner type*;
- TDSP rate class*; and
- TDSP rate sub-class*.

* if changing

RXQ.11.3.8.8 The Registration Agent should send the ESI ID Information Change Request via Uniform Electronic Transaction to the Supplier if all of the following conditions exist:

- the ESI ID exists in the Registration Agent's system, and;
- the ESI ID Information Change Request has the required elements.

RXQ.11.3.8.9 After receiving an ESI ID Information Change Request, the Supplier should send an ESI ID Information Change Confirmation via Uniform Electronic Transaction to the Registration Agent.

RXQ.11.3.8.10 The Registration Agent should send an ESI ID Information Change Confirmation via Uniform Electronic Transaction to the Distribution Company if all of the following conditions exist:

- the ESI ID exists in the Registration Agent's system, and;
- the ESI ID Information Change Request has the required elements.

RXQ.11.3.8.11 An ESI ID Information Change Confirmation should contain the data elements found in RXQ.11.6. At a minimum, the following information should be included:

- Distribution Company name and D-U-N-S® Number;
- Registration Agent name and D-U-N-S® Number;
- Supplier name and D-U-N-S® Number;
- Action or status indicator, and;
- ESI ID.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant:

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2008 Annual Plan Item No. 3 (iv) and (v), Part 1**
Request Title: **ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent**

RXQ.11.3.8.12 An ESI ID Information Change Rejection should contain the data elements found in RXQ.11.6. At a minimum, the following information should be included:

- Distribution Company name and D-U-N-S® Number;
- Registration Agent name and D-U-N-S® Number;
- Supplier name and D-U-N-S® Number;
- Action or status indicator;
- ESI ID;
- Rejection reason code, and;
- Rejection reason.

RXQ.11.4 Models

RXQ.11.4.6 ESI-ID Set-up Using a Registration Agent Process Flow

See Attachment 1, Page 2

RXQ.11.4.7 ESI-ID Information Change Using a Registration Agent Process Flow

See Attachment 1, Page 3

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant:

Requesters: **Joint REQ/RGQ BPS**
Request No.: **2008 Annual Plan Item No. 3 (iv) and (v), Part 1**
Request Title: **ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent**

4. SUPPORTING DOCUMENTATION

a. Description of Request:

2008 Retail Annual Plan Item No. 3 (iv) – ESI ID Set-up, and (v) – ESI ID Change

b. Description of Recommendation:

The Joint Retail Electric and Retail Gas Quadrants Business Practices Subcommittees submit this Recommendation for 2008 Retail Annual Plan Item No. 3 (iv) and (v) – ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent. These Model Business Practices and Models detail the processes for assigning a unique, intelligent alphanumeric Electric Service Identifier (ESI ID) for a single service delivery point (ESI ID Set-up), and for notification of modifications to information associated with that identifier (ESI ID Information Change). It should be noted that the term has been modified from ESI ID Change to ESI ID Information Change since it is the information associated with the ESI ID that is modified rather than the ESI ID itself. Further, during the development of these Model Business Practices, it became apparent that additional Model Business Practices were needed to address the process for the Market Participant to obtain a Customer's historical usage. These Model Businees Practiuces and Models were developed and are included here as additions to Book 8 – Customer Information.

c. Business Purpose:

See above

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

ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Model Business Practices were discussed by the Joint REQ/RGQ Business Practices Subcommittees at the following meetings and conference calls:

May 12 – 13, 2008	Meetings
July 22 – 23, 2008	Meetings
September 11, 2008	Conference Call
November 3 – 4, 2008	Meetings

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant:

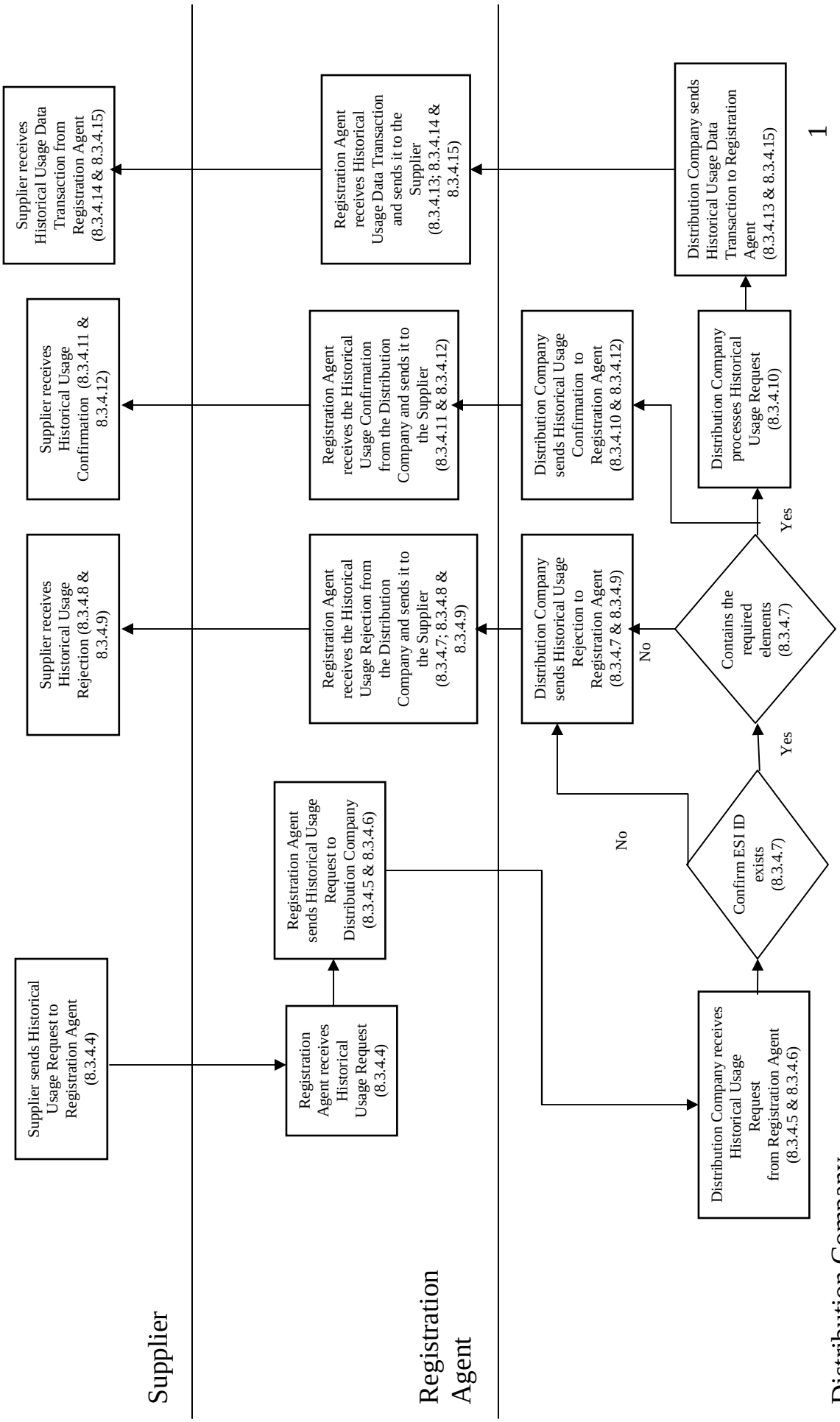
Requesters: **Joint REQ/RGQ BPS**
Request No.: **2008 Annual Plan Item No. 3 (iv) and (v), Part 1**
Request Title: **ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent**

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

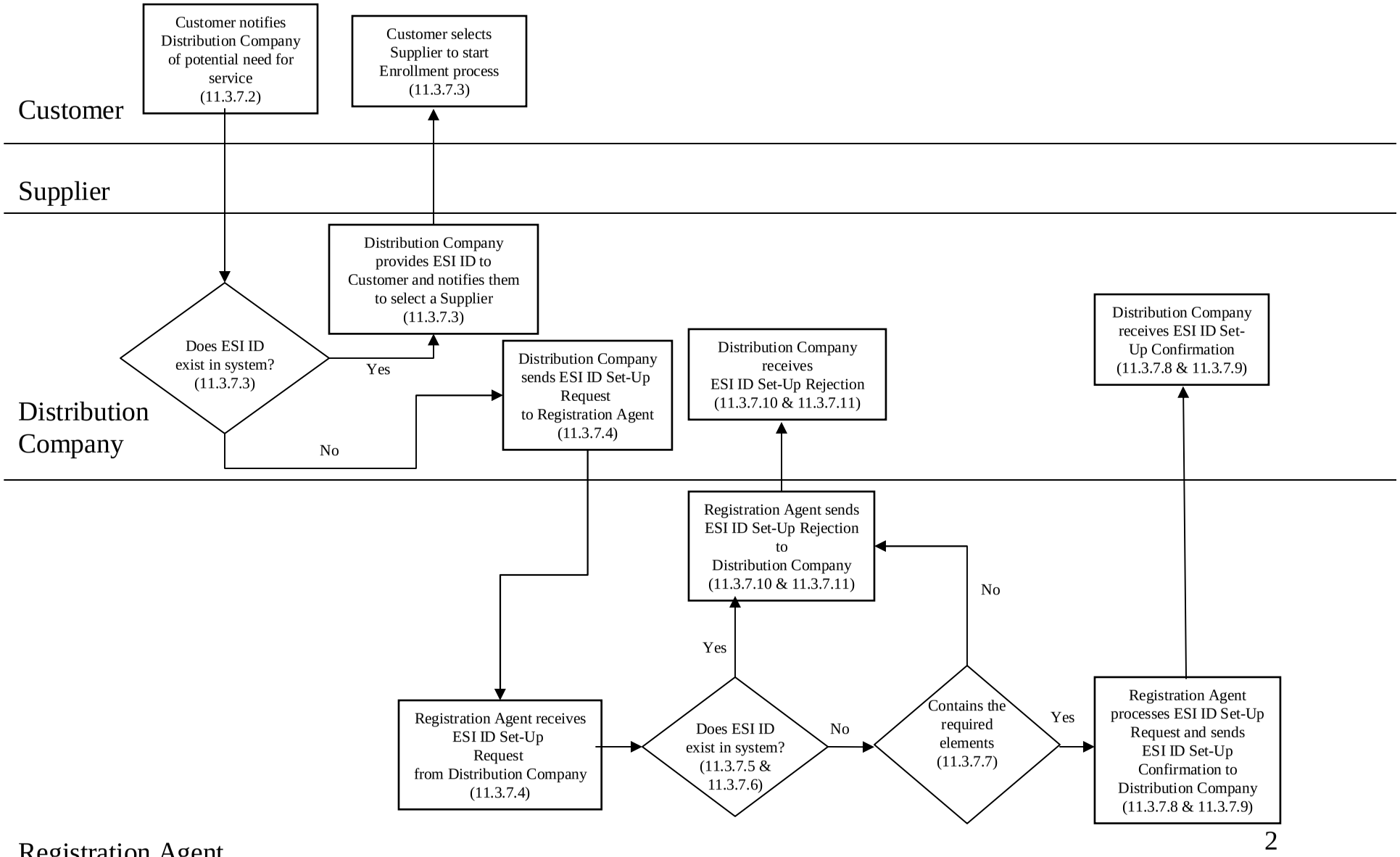
On November 3, 2008 by a vote of 7 In Favor and 0 Opposed, the Joint REQ/RGQ Business Practices Subcommittees voted to release the ESI ID Set-up and ESI ID Information Change Model Business Practices and Models to the Information Requirements Subcommittee for technical development and to the Joint REQ/RGQ Executive Committee for approval.

On November 4, 2008 by a vote of 9 In Favor and 0 Opposed, the Joint REQ/RGQ Business Practices Subcommittees voted to release the Ad Hoc Historical Usage Model Business Practices and Models to the Information Requirements Subcommittee for technical development and to the Joint REQ/RGQ Executive Committee for approval.

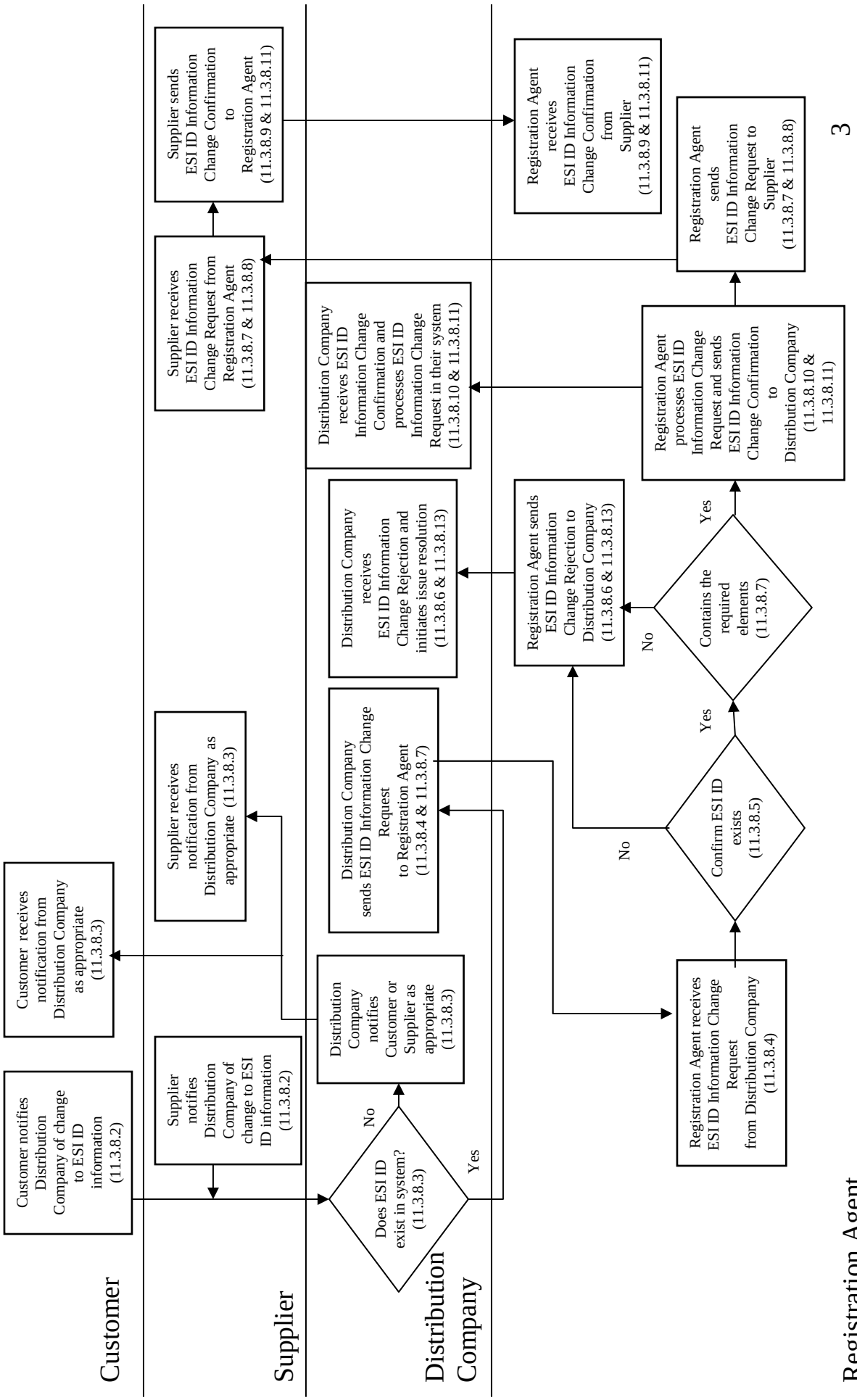
RXQ.8.4.4 Ad Hoc Historical Usage Using a Registration Agent Process Flow



RXQ.11.4.6 ESI ID Set-up Using a Registration Agent Process Flow



RXQ.11.4.7 ESI ID Information Change Using a Registration Agent Process Flow



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

Requesters: **Retail Texas Task Force**
Request No.: **2008 Annual Plan Item No. 3 (iv) and (v), Part 2:**
Request Title: **ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)**

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 2008 Retail Annual Plan Item No. 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). The Technical X12 Implementation Guidelines and Data Dictionaries support the Model Business Practices: 2008 Retail Annual Plan Item No. 3 (iv) and (v), Part 1: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent and attachment.

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

Requesters:	**Retail Texas Task Force**
Request No.:	**2008 Annual Plan Item No. 3 (iv) and (v), Part 2:**
Request Title:	**ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)**

RECOMMENDED STANDARDS:

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

814 NAESB RXQ.8.3.9.3 Ad Hoc Historical Usage Request

Functional Group ID=GE

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the General Request, Response or Confirmation Transaction Set (814) for use within the context of an Electronic Data Interchange (EDI) environment. This standard can be used to request actions to be performed, to respond to a request for actions to be performed or to confirm information related to actions performed.

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	BGN	Beginning Segment	M	1		
			LOOP ID - N1			>1	
	040	N1	Name: Registration Agent (N1~AY)	O	1		
			LOOP ID - N1			>1	
	040	N1	Name: Supplier (N1~SJ)	O	1		
			LOOP ID - N1			>1	
	040	N1	Name: Customer (N1~8R)	O	1		
M	070	N4	Geographic Location	M	1		
			LOOP ID - N1			>1	
	040	N1	Name: Distribution Company (N1~8S)	O	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - LIN			>1	
	010	LIN	Item Identification	O	1		
	020	ASI	Action or Status Indicator	O	1		
M	030	REF	ESI ID (REF~Q5)	M	>1		
M	150	SE	Transaction Set Trailer	M	1		

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 814 General Request, Response or Confirmation	**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.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **BGN** **Beginning Segment**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a transaction set
Syntax Notes: **1** If BGN05 is present, then BGN04 is required.
Semantic Notes: **1** BGN02 is the transaction set reference number.
2 BGN03 is the transaction set date.
3 BGN04 is the transaction set time.
4 BGN05 is the transaction set time qualifier.
5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**BGN01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 13 Request	**M ID 2/2**
M	**BGN02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier A unique transaction identifier	**M AN 1/30**
M	**BGN03**	**373**	**Date** Date expressed as CCYYMMDD	**M DT 8/8**
M	**BGN06**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Transaction Identifier (BGN02) from the Ad Hoc Historical Usage Request when Registration Agent forwards to Distribution Company.	**M AN 1/30**
	BGN08	**306**	**Action Code** Code indicating type of action Transaction subset identifier 26 Bankruptcy Filed - Review Account Ad Hoc Historical Usage Request	**O ID 1/2**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **N1** **Name: Registration Agent (N1~AY)**
Position: 040
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.

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		**M**	**ID 2/3**
			AY	Clearinghouse Registration Agent		
	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)		**X**	**ID 1/2**
			1	D-U-N-S Number, Dun & Bradstreet		
			9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
	N104	**67**	**Identification Code** Code identifying a party or other code		**X**	**AN 2/80**
	N106	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual		**O**	**ID 2/3**
			40	Receiver Entity to accept transmission		
			41	Submitter Entity transmitting transaction set		

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **N1** **Name: Supplier (N1~SJ)**
Position: 040
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.

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 Supplier	**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**
	N106	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 41 Submitter Entity transmitting transaction set	**O ID 2/3**

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

Requesters: Retail Texas Task Force
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Segment: **N1** **Name: Customer (N1~8R)**
Position: 040
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.

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		**M ID 2/3**
			8R	Consumer Service Provider (CSP) Customer	
				Customer	
	N102	**93**	**Name** Free-form name		**X AN 1/60**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Segment: **N4** **Geographic Location**
Position: 070
Loop: N1 Optional
Level: Heading
Usage: Mandatory
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N403**	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	**M ID 3/15**

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Segment: **N1** **Name: Distribution Company (N1~8S)**
Position: 040
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.

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		**M**	**ID 2/3**
			8S	Consumer Service Provider (CSP) Distribution Company		
	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)		**X**	**ID 1/2**
			1	D-U-N-S Number, Dun & Bradstreet		
			9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
	N104	**67**	**Identification Code** Code identifying a party or other code		**X**	**AN 2/80**
	N106	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual		**O**	**ID 2/3**
			40	Receiver Entity to accept transmission		

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

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Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **LIN** **Item Identification**
Position: 010
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:
1 If either LIN04 or LIN05 is present, then the other is required.
2 If either LIN06 or LIN07 is present, then the other is required.
3 If either LIN08 or LIN09 is present, then the other is required.
4 If either LIN10 or LIN11 is present, then the other is required.
5 If either LIN12 or LIN13 is present, then the other is required.
6 If either LIN14 or LIN15 is present, then the other is required.
7 If either LIN16 or LIN17 is present, then the other is required.
8 If either LIN18 or LIN19 is present, then the other is required.
9 If either LIN20 or LIN21 is present, then the other is required.
10 If either LIN22 or LIN23 is present, then the other is required.
11 If either LIN24 or LIN25 is present, then the other is required.
12 If either LIN26 or LIN27 is present, then the other is required.
13 If either LIN28 or LIN29 is present, then the other is required.
14 If either LIN30 or LIN31 is present, then the other is required.
Semantic Notes:
1 LIN01 is the line item identification
Comments:
1 See the Data Dictionary for a complete list of IDs.
2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	LIN01	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set	**O**	**AN 1/20**
M	**LIN02**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested A numeric or alphanumeric code from a list of services available to the customer	**M**	**ID 2/2**
M	**LIN03**	**234**	**Product/Service ID** Identifying number for a product or service EL Electric Service	**M**	**AN 1/48**
	LIN04	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234)	**X**	**ID 2/2**

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		SH	Service Requested A numeric or alphanumeric code from a list of services available to the customer			
LIN05	**234**	**Product/Service ID** Identifying number for a product or service		**X**	**AN 1/48**	
		HI	Historical Interval Usage			
		HU	Historical Usage			

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Segment: **ASI** **Action or Status Indicator**
Position: 020
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To indicate the action to be taken with the information provided or the status of the entity described
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ASI01**	**306**	**Action Code** Code indicating type of action 7 Request	**M ID 1/2**
M	**ASI02**	**875**	**Maintenance Type Code** Code identifying the specific type of item maintenance 029 Inquiry	**M ID 3/3**

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Segment: **REF** **ESI ID (REF~Q5)**
Position: 030
Loop: LIN Optional
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:

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification		**M**	**ID 2/3**
			Q5	Property Control Number		
				ESI ID		
	REF03	**352**	**Description** A free-form description to clarify the related data elements and their content		**X**	**AN 1/80**

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Segment: **SE** **Transaction Set Trailer**
Position: 150
Loop:
Level: Detail
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.

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**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

RXQ.8.3.9.3 Ad Hoc Historical Usage Request

Data Dictionary

Data Elem. Name	Description	Use	Condition	Comments [Options]
Transaction Purpose	Identifies transaction as a request or response	M		[13]
Reference Identification	Unique ID created by the originator of the Historical usage Request	M		
Date	Date this transaction was created by the sender's application system.	M		
Request Reference Identification	Supplier's Reference Number when Registration Agent forwards request to Transmission Company	M		
Action Code	Identifies sub type of Ad Hoc Historical Usage Request transaction	M		[26]
Registration Agent Name	Identifies the Registration Agent Name	M		
Registration Agent Id Number	Entity ID (DUNS Number or DUNS+4 Number) of the registration agent	M		
Entity Id Code	Identifies the sender or receiver of the transaction	M		[40, 41]
Supplier Name	Identifies the Supplier Name	M		
Supplier ID Number	Entity ID (DUNS Number or DUNS+4 Number) of the supplier			
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		
Customer Name	Identifies the Customer Name	M		
Customer Zip	Identifies the customer service address zip; Used for validation of customer	M		
Service Identifier	Identifies type of service	M		[EL]
Service Requested	Identifies services being requested	M		[CE, HI, HU]
Maintenance Type Code	Identifies type of 814	M		[029]
ESI ID	Electric Service Identifier	M		

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Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

814 NAESB RXQ.8.3.9.6 Ad Hoc Historical Usage Response (Accept/Reject)

Functional Group ID=GE

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the General Request, Response or Confirmation Transaction Set (814) for use within the context of an Electronic Data Interchange (EDI) environment. This standard can be used to request actions to be performed, to respond to a request for actions to be performed or to confirm information related to actions performed.

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	BGN	Beginning Segment	M	1		
			LOOP ID - N1			>1	
	040	N1	Name: Registration Agent (N1~AY)	O	1		
			LOOP ID - N1			>1	
	040	N1	Name: Supplier (N1~SJ)	O	1		
			LOOP ID - N1			>1	
	040	N1	Name: Distribution Company (N1~8S)	O	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - LIN			>1	
	010	LIN	Item Identification	O	1		
	020	ASI	Action or Status Indicator	O	1		
	030	REF	ESI ID (REF~Q5)	O	>1		
	030	REF	Reject Reason (REF~7G)	O	>1		
	030	REF	Status Reason (REF~1P)	O	>1		
M	150	SE	Transaction Set Trailer	M	1		

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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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 814 General Request, Response or Confirmation	**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: **BGN** **Beginning Segment**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a transaction set
Syntax Notes: **1** If BGN05 is present, then BGN04 is required.
Semantic Notes: **1** BGN02 is the transaction set reference number.
2 BGN03 is the transaction set date.
3 BGN04 is the transaction set time.
4 BGN05 is the transaction set time qualifier.
5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**BGN01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 11 Response	**M ID 2/2**
M	**BGN02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier A unique transaction identifier.	**M AN 1/30**
M	**BGN03**	**373**	**Date** Date expressed as CCYYMMDD	**M DT 8/8**
M	**BGN06**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Transaction Identifier (BGN06) of the Ad Hoc Historical Usage Request.	**M AN 1/30**
D	**BGN08**	**306**	**Action Code** Code indicating type of action Transaction subset idenitifier 27 Moved - Follow Up Ad Hoc Historical Usage Response	**O ID 1/2**

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Segment: **N1** **Name: Registration Agent (N1~AY)**
Position: 040
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.

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		**M**	**ID 2/3**
			AY	Clearinghouse Registration Agent		
	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)		**X**	**ID 1/2**
			1	D-U-N-S Number, Dun & Bradstreet		
	N104	**67**	**Identification Code** Code identifying a party or other code		**X**	**AN 2/80**
	N106	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual		**O**	**ID 2/3**
			40	Receiver Entity to accept transmission		
			41	Submitter Entity transmitting transaction set		

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **N1** **Name: Supplier (N1~SJ)**
Position: 040
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.

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 Supplier	**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**
	N106	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 40 Receiver Entity to accept transmission	**O ID 2/3**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **N1** **Name: Distribution Company (N1~8S)**
Position: 040
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.

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	**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**
	N106	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 41 Submitter Entity transmitting transaction set	**O ID 2/3**

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Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **LIN** **Item Identification**
Position: 010
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:
1 If either LIN04 or LIN05 is present, then the other is required.
2 If either LIN06 or LIN07 is present, then the other is required.
3 If either LIN08 or LIN09 is present, then the other is required.
4 If either LIN10 or LIN11 is present, then the other is required.
5 If either LIN12 or LIN13 is present, then the other is required.
6 If either LIN14 or LIN15 is present, then the other is required.
7 If either LIN16 or LIN17 is present, then the other is required.
8 If either LIN18 or LIN19 is present, then the other is required.
9 If either LIN20 or LIN21 is present, then the other is required.
10 If either LIN22 or LIN23 is present, then the other is required.
11 If either LIN24 or LIN25 is present, then the other is required.
12 If either LIN26 or LIN27 is present, then the other is required.
13 If either LIN28 or LIN29 is present, then the other is required.
14 If either LIN30 or LIN31 is present, then the other is required.
Semantic Notes:
1 LIN01 is the line item identification
Comments:
1 See the Data Dictionary for a complete list of IDs.
2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	LIN01	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set	**O**	**AN 1/20**
M	**LIN02**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested A numeric or alphanumeric code from a list of services available to the customer	**M**	**ID 2/2**
M	**LIN03**	**234**	**Product/Service ID** Identifying number for a product or service EL Electric Service	**M**	**AN 1/48**
	LIN04	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234)	**X**	**ID 2/2**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
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		SH	Service Requested A numeric or alphanumeric code from a list of services available to the customer		
LIN05	**234**	**Product/Service ID** Identifying number for a product or service		**X**	**AN 1/48**
		CE	Energy Services		
		HI	Historical Interval Usage		
		HU	Historical Usage		

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Segment: **ASI** **Action or Status Indicator**
Position: 020
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To indicate the action to be taken with the information provided or the status of the entity described
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**ASI01**	**306**	**Action Code**		**M**	**ID 1/2**
			Code indicating type of action			
			U	Reject Inability to accept for processing due to the lack of required information		
			WQ	Accept		
M	**ASI02**	**875**	**Maintenance Type Code**		**M**	**ID 3/3**
			Code identifying the specific type of item maintenance			
			029	Inquiry		

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Segment: **REF** **ESI ID (REF~Q5)**
Position: 030
Loop: LIN Optional
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification Q5 Property Control Number ESI ID	**M ID 2/3**
	REF03	**352**	**Description** A free-form description to clarify the related data elements and their content	**X AN 1/80**

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Segment: **REF** **Reject Reason (REF~7G)**
Position: 030
Loop: LIN Optional
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: Segment Required on a Reject Response.
Multiple Reject Reason Codes may be sent.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			Code qualifying the Reference Identification			
			7G	Data Quality Reject Reason		
	REF02	**127**	**Reference Identification**		**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			008	ESI ID Exists but is not active		
			017	Service Terminated because provider out of business		
			A13	Other		
			A76	Service Delivery Point Invalid or Not Found		
			A83	Information Not Supported		
			ACI	Action Code Invalid		
			ANM	Energy Supplier not certified by Transmission Company		
			API	Required Information is Missing		
			D76	DUNS number invalid or not found		
			DOT	Duplicate Original Transaction ID		
			DUP	Duplicate		
			MTI	Maintenance Type Code invalid		
			ZIP	Invalid Zip Code		
	REF03	**352**	**Description**		**X**	**AN 1/80**
			A free-form description to clarify the related data elements and their content			

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Segment: **REF** **Status Reason (REF~1P)**
Position: 030
Loop: LIN Optional
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 when status information must be conveyed.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 1P Accessorial Status Code Qualifies a single number that describes the status of an accessorial transportation service	**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 A13 Other Explanation required in REF03 Element HIU Historical Interval Usage Unavailable HUU Historical Usage Unavailable	**X AN 1/30**
	REF03	**352**	**Description** A free-form description to clarify the related data elements and their content	**X AN 1/80**

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Segment: **SE** **Transaction Set Trailer**
Position: 150
Loop:
Level: Detail
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.

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**

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RXQ.8.3.9.6 Ad Hoc Historical Usage Response

Data Dictionary

Data Elem. Name	Description	Use	Condition	Comments [Options]
Transaction Purpose	Identifies transaction as a request or response	M		[11]
Reference Identification	Unique ID created by the originator of the Historical usage Response	M		
Date	Date this transaction was created by the sender's application system.	M		
Request Reference Identification	Reference the original transaction number from the Ad Hoc Historical Usage Request	M		
Action Code	Identifies sub type of Ad Hoc Historical Usage Response transaction	M		[27]
Registration Agent Name	Identifies the Registration Agent Name	M		
Registration Agent Id Number	Entity ID (DUNS Number or DUNS+4 Number) of the registration agent	M		
Entity Id Code	Identifies the sender or receiver of the transaction	M		[40, 41]
Supplier Name	Identifies the Supplier Name	M		
Supplier ID Number	Entity ID (DUNS Number or DUNS+4 Number) of the supplier			
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		
Service Identifier	Identifies type of service	M		[EL]
Service Requested	Identifies services being requested	M		[CE, HI, HU]
Accept Reject Indicator	Indicates if response is accept or reject	M		[U, WQ]
Maintenance Type Code	Identifies type of 814	M		[029]
ESI ID	Electric Service Identifier	M		
Reject Code	Reject code for the historical usage request	M	RBC	
Reject Code Description	Description of reject code	O		
Status Code	Status code for the historical usage request	O	RBC	
Status Code Description	Description of status code	O		

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Requesters:	**Retail Texas Task Force**
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Request Title:	**ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)**

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867 NAESB RXQ.8.3.9.12 Historical Usage Data

Functional Group ID=PT

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Product Transfer and Resale Report Transaction Set (867) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to: (1) report information about product that has been transferred from one location to another; (2) report sales of product from one or more locations to an end customer; or (3) report sales of a product from one or more locations to an end customer, and demand beyond actual sales (lost orders). Report may be issued by either buyer or seller.

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	BPT	Beginning Segment for Product Transfer and Resale	M	1		
M	060	REF	ESI ID (REF~Q5)	M	1		
			LOOP ID - N1			>1	
M	080	N1	Name: Registration Agent (N1~AY)	M	1		
			LOOP ID - N1			5	
	080	N1	Name: Distribution Company (N1~8S)	O	1		
			LOOP ID - N1			5	
	080	N1	Name: Supplier (N1~SJ)	O	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - PTD			1	
M	010	PTD	Non-Interval Detail (PTD~PL)	M	1		
	020	DTM	Service Period Start (DTM~150)	O	10		
	020	DTM	Service Period End (DTM~151)	O	10		
	020	DTM	Meter Exchange Date (DTM~514)	O	10		
	030	REF	Meter Role (REF~JH)	O	20		
	030	REF	Meter Type (REF~MT)	O	20		
			LOOP ID - QTY			>1	
	110	QTY	Quantity	O	1		
	160	MEA	Meter Reads (MEA~~PRQ)	O	40		

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	160	MEA	Transformer Loss Factor (MEA~~CO)	O	40		
	160	MEA	Meter Multiplier (MEA~~MU)	O	40		
	160	MEA	Power Factor (MEA~~ZA)	O	40		
			LOOP ID - PTD			>1	
M	010	PTD	Unmetered Services (PTD~BD)	M	1		
	020	DTM	Service Period Start (DTM~150)	O	10		
	020	DTM	Service Period End (DTM~151)	O	10		
	030	REF	Unmetered Service Type (REF~PRT)	O	20		
			LOOP ID - QTY			>1	
	110	QTY	Quantity	O	1		
			LOOP ID - PTD			>1	
M	010	PTD	Interval Summary (PTD~BO)	M	1		
	020	DTM	Service Period Start (DTM~150)	O	10		
	020	DTM	Service Period End (DTM~151)	O	10		
	020	DTM	Meter Exchange Date (REF~514)	O	10		
	030	REF	Meter Role (REF~JH)	O	20		
	030	REF	Meter Type (REF~MT)	O	20		
			LOOP ID - QTY			>1	
	110	QTY	Quantity	O	1		
	160	MEA	Transformer Loss Factor (MEA~~CO)	O	40		
	160	MEA	Power Factor (MEA~~ZA)	O	40		
			LOOP ID - PTD			>1	
M	010	PTD	Interval Detail (PTD~PM)	M	1		
	020	DTM	Service Period Start (DTM~150)	O	10		
	020	DTM	Service Period End (DTM~151)	O	10		
	020	DTM	Meter Exchange Date (DTM~514)	O	10		
	030	REF	Channel Number (REF~6W)	O	20		
	030	REF	Meter Type (REF~MT)	O	20		
	030	REF	Meter Role (REF~JH)	O	20		
			LOOP ID - QTY			>1	
	110	QTY	Quantity	O	1		
	210	DTM	Interval End Date Time (DTM~194)	O	10		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	030	SE	Transaction Set Trailer	M	1		

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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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 867 Product Transfer and Resale Report	**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: **BPT** **Beginning Segment for Product Transfer and Resale**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the Product Transfer and Resale Report Transaction Set and transmit identifying data
Syntax Notes: **1** If either BPT05 or BPT06 is present, then the other is required.
Semantic Notes: **1** BPT02 identifies the transfer/resale number.
2 BPT03 identifies the transfer/resale date.
3 BPT08 identifies the transfer/resale time.
4 BPT09 is used when it is necessary to reference a Previous Report Number.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**BPT01**	**353**	**Transaction Set Purpose Code**		**M**	**ID 2/2**
			Code identifying purpose of transaction set			
			52	Response to Historical Inquiry		
				Response to a request for historical meter reading		
>>	**BPT02**	**127**	**Reference Identification**		**O**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			A unique transaction identifier			
M	**BPT03**	**373**	**Date**		**M**	**DT 8/8**
			Date expressed as CCYYMMDD			
	BPT04	**755**	**Report Type Code**		**O**	**ID 2/2**
			Code indicating the title or contents of a document, report or supporting item			
			C1	Cost Data Summary		
				Interval Meters		
			DD	Distributor Inventory Report		
				Non-interval metered and unmetered		
			DR	Datalog Report		
				Mixed Values - reporting cycle contains periods of both non-interval and interval data.		
X	**BPT05**	**648**	**Price Multiplier Qualifier**		**X**	**ID 3/3**
X	**BPT06**	**649**	**Multiplier**		**X**	**R 1/10**
X	**BPT07**	**306**	**Action Code**		**O**	**ID 1/2**
X	**BPT08**	**337**	**Time**		**O**	**TM 4/8**
M	**BPT09**	**127**	**Reference Identification**		**M**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as			

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			specified by the Reference Identification Qualifier		
			Original Transaction Identifier from the BGN06 of the Ad Hoc Historical Usage Response		
X	**BPT10**	**786**	**Security Level Code**	**O**	**ID 2/2**

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Segment: **REF** **ESI ID (REF~Q5)**
Position: 060
Loop:
Level: Heading
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification Q5 Property Control Number ESI ID	**M**	**ID 2/3**
X	**REF02**	**127**	**Customer Account ID; use when REF01=12**	**X**	**AN 1/30**
>>	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content	**X**	**AN 1/80**
X	**REF04**	**C040**	**Reference Identifier** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	**O**	
X	**C04001**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**M**	**ID 2/3**
X	**C04002**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**M**	**AN 1/30**
X	**C04003**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**X**	**ID 2/3**
X	**C04004**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**AN 1/30**
X	**C04005**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**X**	**ID 2/3**
X	**C04006**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**AN 1/30**

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Segment: **N1** **Name: Registration Agent (N1~AY)**
Position: 080
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.

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 AY Clearinghouse Registration Agent	**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**
X	**N105**	**706**	**Entity Relationship Code**	**O ID 2/2**
D	**N106**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 40 Receiver 41 Submitter	**O ID 2/3**

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Segment: **N1** **Name: Distribution Company (N1~8S)**
Position: 080
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.

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) Distribution Company	**M ID 2/3**
>>	**N102**	**93**	**Name** Free-form name Clearinghouse 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 Clearinghouse D-U-N-S Number	**X AN 2/80**
X	**N105**	**706**	**Entity Relationship Code**	**O ID 2/2**
>>	**N106**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 41 Submitter	**O ID 2/3**

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Requesters: Retail Texas Task Force
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Segment: **N1** **Name: Supplier (N1~SJ)**
Position: 080
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 Historical Usage was requested by a CR. Not used on initial load of data to the settlement agent.

N1~SJ~CR~9~007909422CRN1 (Distribution Company to Clearinghouse)
N1~SJ~CR~9~007909422CRN1~~40 (Clearinghouse to CR)

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 Supplier	**M ID 2/3**
>>	**N102**	**93**	**Name** Free-form name Supplier 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 Supplier D-U-N-S Number or D-U-N-S + 4 Number	**X AN 2/80**
X	**N105**	**706**	**Entity Relationship Code**	**O ID 2/2**
D	**N106**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an	**O ID 2/3**

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

Requesters:	**Retail Texas Task Force**
Request No.:	**2008 Annual Plan Item No. 3 (iv) and (v), Part 2:**
Request Title:	**ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)**

individual	
Distribution Company to Clearinghouse: Not Used Clearinghouse to CR: Required	
40	Receiver

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **PTD** **Non-Interval Detail (PTD~PL)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes: **1** If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: One PTD~PL Loop for each meter for each unit of measure.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**PTD01**	**521**	**Product Transfer Type Code** Code identifying the type of product transfer		**M**	**ID 2/2**
			PL	Property Level Movement/Sale Non-Interval Detail		
X	**PTD02**	**648**	**Price Multiplier Qualifier**		**X**	**ID 3/3**
X	**PTD03**	**649**	**Multiplier**		**X**	**R 1/10**
D	**PTD04**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification		**X**	**ID 2/3**
			MG	Meter Number Not used if the PTD06= "AO" or "AI"		
D	**PTD05**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		**X**	**AN 1/30**
	PTD06	**486**	**Product Transfer Movement Type Code** To indicate the type of product transfer movement Optional, Used to report Additive/Subtractive information		**O**	**ID 2/2**
			AI	Adjustment In Additive Metering		
			AO	Adjustment Out Subtractive Metering		
			CD	Customer to Distributor Added Flat /Bypass- Missing or Abundance of Consumption		
			DC	Distributor to Customer Added Slow- Missing or Abundance of Consumption		
			DM	Distributor to Manufacturer		

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

Requesters:	**Retail Texas Task Force**
Request No.:	**2008 Annual Plan Item No. 3 (iv) and (v), Part 2:**
Request Title:	**ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)**

	Subtracted Fast- Missing or Abundance of Consumption
MD	Manufacturer to Distributor
	Added Tampering- Missing or Abundance of Consumption

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **DTM** **Service Period Start (DTM~150)**
Position: 020
Loop: PTD 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:

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	**X**	**DT 8/8**
X	**DTM03**	**337**	**Time**	**X**	**TM 4/8**
X	**DTM04**	**623**	**Time Code**	**O**	**ID 2/2**
X	**DTM05**	**1250**	**Date Time Period Format Qualifier**	**X**	**ID 2/3**
X	**DTM06**	**1251**	**Date Time Period**	**X**	**AN 1/35**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **DTM** **Service Period End (DTM~151)**
Position: 020
Loop: PTD 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:

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	**X**	**DT 8/8**
X	**DTM03**	**337**	**Time**	**X**	**TM 4/8**
X	**DTM04**	**623**	**Time Code**	**O**	**ID 2/2**
X	**DTM05**	**1250**	**Date Time Period Format Qualifier**	**X**	**ID 2/3**
X	**DTM06**	**1251**	**Date Time Period**	**X**	**AN 1/35**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **DTM** **Meter Exchange Date (DTM~514)**
Position: 020
Loop: PTD 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: Used when a meter change out occurs. There will be two PTD loops - one for each meter
Date Range in the first PTD is shown as:
DTM~150~20010101
DTM~514~20010114

Date Range in the second PTD is shown as:
DTM~514~20010114
DTM~151~20010128

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 514 Transferred Exchange Date	**M**	**ID 3/3**
>>	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X**	**DT 8/8**
X	**DTM03**	**337**	**Time**	**X**	**TM 4/8**
X	**DTM04**	**623**	**Time Code**	**O**	**ID 2/2**
X	**DTM05**	**1250**	**Date Time Period Format Qualifier**	**X**	**ID 2/3**
X	**DTM06**	**1251**	**Date Time Period**	**X**	**AN 1/35**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **REF** **Meter Role (REF~JH)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification JH Tag Meter Role	**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 A Additive This consumption must be added to the summarized total I Ignore This consumption did not contribute to the summarized total (do nothing) S Subtractive This consumption must be subtracted from the summarized total	**X**	**AN 1/30**
X	**REF03**	**352**	**Description**	**X**	**AN 1/80**
X	**REF04**	**C040**	**Reference Identifier** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	**O**	
X	**C04001**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**M**	**ID 2/3**
X	**C04002**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**M**	**AN 1/30**
X	**C04003**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**X**	**ID 2/3**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

X	**C04004**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**AN 1/30**
X	**C04005**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**X**	**ID 2/3**
X	**C04006**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**AN 1/30**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **REF** **Meter Type (REF~MT)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification MT Meter Ticket Number Meter 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	**X**	**AN 1/30**
X	**REF03**	**352**	**Description**	**X**	**AN 1/80**
X	**REF04**	**C040**	**Reference Identifier** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier Note this is a composite data element. Populate C04001 and C04002.	**O**	
X	**C04001**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**M**	**ID 2/3**
X	**C04002**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier NOTE: Other codes (as identified by UIG) can be used to identify quantities measured by the meter, but should not be used to identify tariffed/calculated measurements.	**M**	**AN 1/30**
X	**C04003**	**128**	**Reference Identification Qualifier**	**X**	**ID 2/3**
X	**C04004**	**127**	**Reference Identification**	**X**	**AN 1/30**
X	**C04005**	**128**	**Reference Identification Qualifier**	**X**	**ID 2/3**
X	**C04006**	**127**	**Reference Identification**	**X**	**AN 1/30**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **QTY** **Quantity**
Position: 110
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: There will be one QTY loop for each Time of Use (i.e., one for On Peak kWh, one for Off Peak kWh, one for Total kWh, etc.)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**QTY01**	**673**	**Quantity Qualifier** Code specifying the type of quantity KA Estimated Quantity is estimated QD Quantity Delivered Quantity is actual	**M**	**ID 2/2**
>>	**QTY02**	**380**	**Quantity** Numeric value of quantity Total Consumption / Max Demand	**X**	**R 1/15**
X	**QTY03**	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use) Note this is a composite data element, populate C00101	**O**	
X	**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**
X	**C00102**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00103**	**649**	**Multiplier**	**O**	**R 1/10**
X	**C00104**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00105**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00106**	**649**	**Multiplier**	**O**	**R 1/10**
X	**C00107**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00108**	**1018**	**Exponent**	**O**	**R 1/15**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

X	C00109	649	Multiplier	O	R 1/10
X	C00110	355	Unit or Basis for Measurement Code	O	ID 2/2
X	C00111	1018	Exponent	O	R 1/15
X	C00112	649	Multiplier	O	R 1/10
X	C00113	355	Unit or Basis for Measurement Code	O	ID 2/2
X	C00114	1018	Exponent	O	R 1/15
X	C00115	649	Multiplier	O	R 1/10
X	QTY04	61	Free-Form Message	X	AN 1/30

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **MEA** **Meter Reads (MEA~~PRQ)**
Position: 160
Loop: QTY Optional
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	MEA01	737	**Measurement Reference ID Code**	O	ID 2/2
>>	MEA02	738	**Measurement Qualifier**	O	ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies		
			PRQ Product Reportable Quantity		
			Consumption		
>>	MEA03	739	**Measurement Value**	X	R 1/20
			The value of the measurement		
			Total consumption after multiplier is applied.		
X	MEA04	C001	**Composite Unit of Measure**	X	
			To identify a composite unit of measure (See Figures Appendix for examples of use)		
			Please note that this is a composite data element, populate C00101.		
X	C00101	355	**Unit or Basis for Measurement Code**	M	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
X	C00102	1018	**Exponent**	O	R 1/15
X	C00103	649	**Multiplier**	O	R 1/10
X	C00104	355	**Unit or Basis for Measurement Code**	O	ID 2/2
X	C00105	1018	**Exponent**	O	R 1/15
X	C00106	649	**Multiplier**	O	R 1/10

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

X	**C00107**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00108**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00109**	**649**	**Multiplier**	**O**	**R 1/10**
X	**C00110**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00111**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00112**	**649**	**Multiplier**	**O**	**R 1/10**
X	**C00113**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00114**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00115**	**649**	**Multiplier**	**O**	**R 1/10**
X	**MEA05**	**740**	**Range Minimum**	**X**	**R 1/20**
X	**MEA06**	**741**	**Range Maximum**	**X**	**R 1/20**
>>	**MEA07**	**935**	**Measurement Significance Code**	**O**	**ID 2/2**
			Code used to benchmark, qualify or further define a measurement value		
			41 Off Peak		
			42 On Peak		
			43 Intermediate		
			Mid-Peak		
			51 Total		
			Totalizer/Total/Max (Demand)		
			71 Low		
			Summer Super On-Peak		
X	**MEA08**	**936**	**Measurement Attribute Code**	**X**	**ID 2/2**
X	**MEA09**	**752**	**Surface/Layer/Position Code**	**O**	**ID 2/2**
X	**MEA10**	**1373**	**Measurement Method or Device**	**O**	**ID 2/4**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **MEA** **Transformer Loss Factor (MEA~~CO)**
Position: 160
Loop: QTY Optional
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	MEA01	737	**Measurement Reference ID Code**	O	ID 2/2
>>	MEA02	738	**Measurement Qualifier**	O	ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies		
			CO Core Loss		
			Transformer Loss Factor		
>>	MEA03	739	**Measurement Value**	X	R 1/20
			The value of the measurement		
X	MEA04	C001	**Composite Unit of Measure**	X	
			To identify a composite unit of measure (See Figures Appendix for examples of use)		
X	C00101	355	**Unit or Basis for Measurement Code**	M	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
X	C00102	1018	**Exponent**	O	R 1/15
X	C00103	649	**Multiplier**	O	R 1/10
X	C00104	355	**Unit or Basis for Measurement Code**	O	ID 2/2
X	C00105	1018	**Exponent**	O	R 1/15
X	C00106	649	**Multiplier**	O	R 1/10
X	C00107	355	**Unit or Basis for Measurement Code**	O	ID 2/2
X	C00108	1018	**Exponent**	O	R 1/15
X	C00109	649	**Multiplier**	O	R 1/10

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

X	C00110	355	Unit or Basis for Measurement Code	O	ID 2/2
X	C00111	1018	Exponent	O	R 1/15
X	C00112	649	Multiplier	O	R 1/10
X	C00113	355	Unit or Basis for Measurement Code	O	ID 2/2
X	C00114	1018	Exponent	O	R 1/15
X	C00115	649	Multiplier	O	R 1/10
X	MEA05	740	Range Minimum	X	R 1/20
X	MEA06	741	Range Maximum	X	R 1/20
X	MEA07	935	Measurement Significance Code	O	ID 2/2
X	MEA08	936	Measurement Attribute Code	X	ID 2/2
X	MEA09	752	Surface/Layer/Position Code	O	ID 2/2
X	MEA10	1373	Measurement Method or Device	O	ID 2/4

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **MEA** **Meter Multiplier (MEA~~MU)**
Position: 160
Loop: QTY Optional
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: If no meter multiplier, then populate with "1"

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	MEA01	737	**Measurement Reference ID Code**	O	ID 2/2
>>	MEA02	738	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies MU Multiplier Meter Multiplier (Ending Reading - Beginning Reading) * Meter Multiplier = Billed Usage	O	ID 1/3
>>	MEA03	739	**Measurement Value** The value of the measurement	X	R 1/20
X	MEA04	C001	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	X	
X	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
X	C00102	1018	**Exponent** Power to which a unit is raised	O	R 1/15
X	C00103	649	**Multiplier** Value to be used as a multiplier to obtain a new value	O	R 1/10

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

X	**C00104**	**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	**O**	**ID 2/2**
X	**C00105**	**1018**	**Exponent** Power to which a unit is raised	**O**	**R 1/15**
X	**C00106**	**649**	**Multiplier** Value to be used as a multiplier to obtain a new value	**O**	**R 1/10**
X	**C00107**	**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	**O**	**ID 2/2**
X	**C00108**	**1018**	**Exponent** Power to which a unit is raised	**O**	**R 1/15**
X	**C00109**	**649**	**Multiplier** Value to be used as a multiplier to obtain a new value	**O**	**R 1/10**
X	**C00110**	**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	**O**	**ID 2/2**
X	**C00111**	**1018**	**Exponent** Power to which a unit is raised	**O**	**R 1/15**
X	**C00112**	**649**	**Multiplier** Value to be used as a multiplier to obtain a new value	**O**	**R 1/10**
X	**C00113**	**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	**O**	**ID 2/2**
X	**C00114**	**1018**	**Exponent** Power to which a unit is raised	**O**	**R 1/15**
X	**C00115**	**649**	**Multiplier** Value to be used as a multiplier to obtain a new value	**O**	**R 1/10**
X	**MEA05**	**740**	**Range Minimum**	**X**	**R 1/20**
X	**MEA06**	**741**	**Range Maximum**	**X**	**R 1/20**
X	**MEA07**	**935**	**Measurement Significance Code**	**O**	**ID 2/2**
X	**MEA08**	**936**	**Measurement Attribute Code**	**X**	**ID 2/2**
X	**MEA09**	**752**	**Surface/Layer/Position Code**	**O**	**ID 2/2**
X	**MEA10**	**1373**	**Measurement Method or Device**	**O**	**ID 2/4**

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

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Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **MEA** **Power Factor (MEA~~ZA)**
Position: 160
Loop: QTY Optional
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	MEA01	737	**Measurement Reference ID Code**	O	ID 2/2
>>	MEA02	738	**Measurement Qualifier**	O	ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies		
			ZA Power Factor		
			Relationship between watts and volt - amperes necessary to supply electric load		
>>	MEA03	739	**Measurement Value**	X	R 1/20
			The value of the measurement		
X	MEA04	C001	**Composite Unit of Measure**	X	
			To identify a composite unit of measure (See Figures Appendix for examples of use)		
X	C00101	355	**Unit or Basis for Measurement Code**	M	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
X	C00102	1018	**Exponent**	O	R 1/15
			Power to which a unit is raised		
X	C00103	649	**Multiplier**	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
X	C00104	355	**Unit or Basis for Measurement Code**	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		

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For Quadrant: Retail Electric and Retail Gas Quadrants

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X	**C00105**	**1018**	**Exponent** Power to which a unit is raised	**O**	**R 1/15**
X	**C00106**	**649**	**Multiplier** Value to be used as a multiplier to obtain a new value	**O**	**R 1/10**
X	**C00107**	**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	**O**	**ID 2/2**
X	**C00108**	**1018**	**Exponent** Power to which a unit is raised	**O**	**R 1/15**
X	**C00109**	**649**	**Multiplier** Value to be used as a multiplier to obtain a new value	**O**	**R 1/10**
X	**C00110**	**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	**O**	**ID 2/2**
X	**C00111**	**1018**	**Exponent** Power to which a unit is raised	**O**	**R 1/15**
X	**C00112**	**649**	**Multiplier** Value to be used as a multiplier to obtain a new value	**O**	**R 1/10**
X	**C00113**	**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	**O**	**ID 2/2**
X	**C00114**	**1018**	**Exponent** Power to which a unit is raised	**O**	**R 1/15**
X	**C00115**	**649**	**Multiplier** Value to be used as a multiplier to obtain a new value	**O**	**R 1/10**
X	**MEA05**	**740**	**Range Minimum**	**X**	**R 1/20**
X	**MEA06**	**741**	**Range Maximum**	**X**	**R 1/20**
X	**MEA07**	**935**	**Measurement Significance Code**	**O**	**ID 2/2**
X	**MEA08**	**936**	**Measurement Attribute Code**	**X**	**ID 2/2**
X	**MEA09**	**752**	**Surface/Layer/Position Code**	**O**	**ID 2/2**
X	**MEA10**	**1373**	**Measurement Method or Device**	**O**	**ID 2/4**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **PTD** **Unmetered Services (PTD~BD)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes: **1** If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: PTD = BD (Unmetered Services)
One PTD loop is required for each unmetered service type.
PTD~BD

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**PTD01**	**521**	**Product Transfer Type Code** Code identifying the type of product transfer BD Issue - Other Department Unmetered Services Detail	**M**	**ID 2/2**
X	**PTD02**	**648**	**Price Multiplier Qualifier**	**X**	**ID 3/3**
X	**PTD03**	**649**	**Multiplier**	**X**	**R 1/10**
X	**PTD04**	**128**	**Reference Identification Qualifier**	**X**	**ID 2/3**
X	**PTD05**	**127**	**Reference Identification**	**X**	**AN 1/30**
X	**PTD06**	**486**	**Product Transfer Movement Type Code**	**O**	**ID 2/2**

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

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Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **DTM** **Service Period Start (DTM~150)**
Position: 020
Loop: PTD 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:

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	**X**	**DT 8/8**
X	**DTM03**	**337**	**Time**	**X**	**TM 4/8**
X	**DTM04**	**623**	**Time Code**	**O**	**ID 2/2**
X	**DTM05**	**1250**	**Date Time Period Format Qualifier**	**X**	**ID 2/3**
X	**DTM06**	**1251**	**Date Time Period**	**X**	**AN 1/35**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **DTM** **Service Period End (DTM~151)**
Position: 020
Loop: PTD 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:

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	**X**	**DT 8/8**
X	**DTM03**	**337**	**Time**	**X**	**TM 4/8**
X	**DTM04**	**623**	**Time Code**	**O**	**ID 2/2**
X	**DTM05**	**1250**	**Date Time Period Format Qualifier**	**X**	**ID 2/3**
X	**DTM06**	**1251**	**Date Time Period**	**X**	**AN 1/35**

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

Requesters: Retail Texas Task Force
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Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **REF** **Unmetered Service Type (REF~PRT)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
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:

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			Code qualifying the Reference Identification		
			PRT	Product Type	
				Unmetered Service Type	
>>	**REF02**	**127**	**Reference Identification**		**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			AN	Antenna	
			AR	Argon	
			BB	Bill Boards	
			BS	Bus Shelters	
			CU	Cat Unit	
			ED	Electronic Device	
			FL	Fluorescent	
			HA	Historical/Antique	
			IN	Incandescent	
			LV	Levys	
			MH	Metal Halide	
			MV	Mercury Vapor	
			OT	Other Un-Metered	
			PA	Power Analog node	
			PB	Phone Booth	
			PO	Phone Outlet	
			PS	Pump Station	
			RR	Rail Road Crossings	
			SD	Sodium	
			TL	Traffic Lights	

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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			TR	Tranceiver		
			WM	Wallpacked Mercury Vapor		
			WS	Warning Sirens		
D	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content Used to provide additional clarification information to the Supplier for the Unmetered Service when necessary. When applicable, used to provide the specific wattage/lumens for a light.		**X**	**AN 1/80**
X	**REF04**	**C040**	**Reference Identifier** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier		**O**	
X	**C04001**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification		**M**	**ID 2/3**
X	**C04002**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		**M**	**AN 1/30**
X	**C04003**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification		**X**	**ID 2/3**
X	**C04004**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		**X**	**AN 1/30**
X	**C04005**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification		**X**	**ID 2/3**
X	**C04006**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		**X**	**AN 1/30**

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Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **QTY** **Quantity**
Position: 110
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**QTY01**	**673**	**Quantity Qualifier** Code specifying the type of quantity QD Quantity Delivered	**M**	**ID 2/2**
>>	**QTY02**	**380**	**Quantity** Numeric value of quantity Total consumption for unmetered device type.	**X**	**R 1/15**
>>	**QTY03**	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**O**	
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 EA Each	**M**	**ID 2/2**
X	**C00102**	**1018**	**Exponent**	**O**	**R 1/15**
>>	**C00103**	**649**	**Multiplier** Value to be used as a multiplier to obtain a new value Number of unmetered devices for this specific Unmetered Service Type (as defined in the REF~PRT segment).	**O**	**R 1/10**
>>	**C00104**	**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 KH Kilowatt Hour	**O**	**ID 2/2**
X	**C00105**	**1018**	**Exponent**	**O**	**R 1/15**
>>	**C00106**	**649**	**Multiplier** Value to be used as a multiplier to obtain a new value This represents the consumption quantity per device	**O**	**R 1/10**
X	**C00107**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00108**	**1018**	**Exponent**	**O**	**R 1/15**

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X	C00109	649	Multiplier	O	R 1/10
X	C00110	355	Unit or Basis for Measurement Code	O	ID 2/2
X	C00111	1018	Exponent	O	R 1/15
X	C00112	649	Multiplier	O	R 1/10
X	C00113	355	Unit or Basis for Measurement Code	O	ID 2/2
X	C00114	1018	Exponent	O	R 1/15
X	C00115	649	Multiplier	O	R 1/10
X	QTY04	61	Free-Form Message	X	AN 1/30

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Segment: **PTD** **Interval Summary (PTD~BO)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes: **1** If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: One PTD~BO loop is required for each meter for each unit of measure.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**PTD01**	**521**	**Product Transfer Type Code** Code identifying the type of product transfer		**M**	**ID 2/2**
			BO	Designated Items Interval Summary - interval meter consumption summarized across intervals.		
X	**PTD02**	**648**	**Price Multiplier Qualifier**		**X**	**ID 3/3**
X	**PTD03**	**649**	**Multiplier**		**X**	**R 1/10**
D	**PTD04**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification		**X**	**ID 2/3**
			MG	Meter Number Not used if the PTD06 = "AO" or "AI".		
D	**PTD05**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		**X**	**AN 1/30**
	PTD06	**486**	**Product Transfer Movement Type Code** To indicate the type of product transfer movement Optional, Used to report Additive/Subtractive information		**O**	**ID 2/2**
			AI	Adjustment In Additive Metering		
			AO	Adjustment Out Subtractive Metering		

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Segment: **DTM** **Service Period Start (DTM~150)**
Position: 020
Loop: PTD 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:

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	**X**	**DT 8/8**
X	**DTM03**	**337**	**Time**	**X**	**TM 4/8**
X	**DTM04**	**623**	**Time Code**	**O**	**ID 2/2**
X	**DTM05**	**1250**	**Date Time Period Format Qualifier**	**X**	**ID 2/3**
X	**DTM06**	**1251**	**Date Time Period**	**X**	**AN 1/35**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
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Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **DTM** **Service Period End (DTM~151)**
Position: 020
Loop: PTD 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:

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	**X**	**DT 8/8**
X	**DTM03**	**337**	**Time**	**X**	**TM 4/8**
X	**DTM04**	**623**	**Time Code**	**O**	**ID 2/2**
X	**DTM05**	**1250**	**Date Time Period Format Qualifier**	**X**	**ID 2/3**
X	**DTM06**	**1251**	**Date Time Period**	**X**	**AN 1/35**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **DTM** **Meter Exchange Date (REF~514)**
Position: 020
Loop: PTD 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: Used when a meter change out occurs. There will be two PTD loops - one for each meter
Date Range in the first PTD is shown as:
DTM~150~19990201
DTM~514~19990214

Date Range in the second PTD is shown as:
DTM~514~19990214
DTM~151~19990228

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 514 Transferred Exchange Date	**M**	**ID 3/3**
>>	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X**	**DT 8/8**
X	**DTM03**	**337**	**Time**	**X**	**TM 4/8**
X	**DTM04**	**623**	**Time Code**	**O**	**ID 2/2**
X	**DTM05**	**1250**	**Date Time Period Format Qualifier**	**X**	**ID 2/3**
X	**DTM06**	**1251**	**Date Time Period**	**X**	**AN 1/35**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **REF** **Meter Role (REF~JH)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification JH Tag Meter Role	**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 A Additive This consumption must be added to the summarized total I Ignore This consumption did not contribute to the summarized total (do nothing) S Subtractive This consumption must be subtracted from the summarized total	**X**	**AN 1/30**
X	**REF03**	**352**	**Description**	**X**	**AN 1/80**
X	**REF04**	**C040**	**Reference Identifier** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	**O**	
X	**C04001**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**M**	**ID 2/3**
X	**C04002**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**M**	**AN 1/30**
X	**C04003**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**X**	**ID 2/3**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

X	**C04004**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**AN 1/30**
X	**C04005**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**X**	**ID 2/3**
X	**C04006**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**AN 1/30**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **REF** **Meter Type (REF~MT)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification MT Meter Ticket Number Meter 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	**X**	**AN 1/30**
X	**REF03**	**352**	**Description**	**X**	**AN 1/80**
X	**REF04**	**C040**	**Reference Identifier** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier Note this is a composite data element. Populate C04001 and C04002.	**O**	
X	**C04001**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**M**	**ID 2/3**
X	**C04002**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier NOTE: Other codes (as identified by UIG) can be used to identify quantities measured by the meter, but should not be used to identify tariffed/calculated measurements.	**M**	**AN 1/30**
X	**C04003**	**128**	**Reference Identification Qualifier**	**X**	**ID 2/3**
X	**C04004**	**127**	**Reference Identification**	**X**	**AN 1/30**
X	**C04005**	**128**	**Reference Identification Qualifier**	**X**	**ID 2/3**
X	**C04006**	**127**	**Reference Identification**	**X**	**AN 1/30**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **QTY** **Quantity**
Position: 110
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**QTY01**	**673**	**Quantity Qualifier** Code specifying the type of quantity KA Estimated Quantity is estimated QD Quantity Delivered Quantity is actual	**M**	**ID 2/2**
>>	**QTY02**	**380**	**Quantity** Numeric value of quantity	**X**	**R 1/15**
X	**QTY03**	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use) Note this is a composite data element, populate C00101	**O**	
X	**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**
X	**C00102**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00103**	**649**	**Multiplier**	**O**	**R 1/10**
X	**C00104**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00105**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00106**	**649**	**Multiplier**	**O**	**R 1/10**
X	**C00107**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00108**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00109**	**649**	**Multiplier**	**O**	**R 1/10**
X	**C00110**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00111**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00112**	**649**	**Multiplier**	**O**	**R 1/10**
X	**C00113**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00114**	**1018**	**Exponent**	**O**	**R 1/15**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

X	C00115	649	Multiplier	O	R 1/10
X	QTY04	61	Free-Form Message	X	AN 1/30

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **MEA** **Transformer Loss Factor (MEA~~CO)**
Position: 160
Loop: QTY Optional
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	**MEA01**	**737**	**Measurement Reference ID Code**	**O**	**ID 2/2**
>>	**MEA02**	**738**	**Measurement Qualifier**	**O**	**ID 1/3**
			Code identifying a specific product or process characteristic to which a measurement applies		
			CO Core Loss		
			Transformer Loss Factor		
>>	**MEA03**	**739**	**Measurement Value**	**X**	**R 1/20**
			The value of the measurement		
X	**MEA04**	**C001**	**Composite Unit of Measure**	**X**	
			To identify a composite unit of measure (See Figures Appendix for examples of use)		
X	**C00101**	**355**	**Unit or Basis for Measurement Code**	**M**	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
X	**C00102**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00103**	**649**	**Multiplier**	**O**	**R 1/10**
X	**C00104**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00105**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00106**	**649**	**Multiplier**	**O**	**R 1/10**
X	**C00107**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00108**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00109**	**649**	**Multiplier**	**O**	**R 1/10**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

X	C00110	355	Unit or Basis for Measurement Code	O	ID 2/2
X	C00111	1018	Exponent	O	R 1/15
X	C00112	649	Multiplier	O	R 1/10
X	C00113	355	Unit or Basis for Measurement Code	O	ID 2/2
X	C00114	1018	Exponent	O	R 1/15
X	C00115	649	Multiplier	O	R 1/10
X	MEA05	740	Range Minimum	X	R 1/20
X	MEA06	741	Range Maximum	X	R 1/20
X	MEA07	935	Measurement Significance Code	O	ID 2/2
X	MEA08	936	Measurement Attribute Code	X	ID 2/2
X	MEA09	752	Surface/Layer/Position Code	O	ID 2/2
X	MEA10	1373	Measurement Method or Device	O	ID 2/4

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **MEA** **Power Factor (MEA~~ZA)**
Position: 160
Loop: QTY Optional
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	MEA01	737	**Measurement Reference ID Code**	O	ID 2/2
>>	MEA02	738	**Measurement Qualifier**	O	ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies		
			ZA Power Factor		
			Relationship between watts and volt - amperes necessary to supply electric load		
>>	MEA03	739	**Measurement Value**	X	R 1/20
			The value of the measurement		
X	MEA04	C001	**Composite Unit of Measure**	X	
			To identify a composite unit of measure (See Figures Appendix for examples of use)		
X	C00101	355	**Unit or Basis for Measurement Code**	M	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
X	C00102	1018	**Exponent**	O	R 1/15
			Power to which a unit is raised		
X	C00103	649	**Multiplier**	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
X	C00104	355	**Unit or Basis for Measurement Code**	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

X	**C00105**	**1018**	**Exponent** Power to which a unit is raised	**O**	**R 1/15**
X	**C00106**	**649**	**Multiplier** Value to be used as a multiplier to obtain a new value	**O**	**R 1/10**
X	**C00107**	**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	**O**	**ID 2/2**
X	**C00108**	**1018**	**Exponent** Power to which a unit is raised	**O**	**R 1/15**
X	**C00109**	**649**	**Multiplier** Value to be used as a multiplier to obtain a new value	**O**	**R 1/10**
X	**C00110**	**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	**O**	**ID 2/2**
X	**C00111**	**1018**	**Exponent** Power to which a unit is raised	**O**	**R 1/15**
X	**C00112**	**649**	**Multiplier** Value to be used as a multiplier to obtain a new value	**O**	**R 1/10**
X	**C00113**	**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	**O**	**ID 2/2**
X	**C00114**	**1018**	**Exponent** Power to which a unit is raised	**O**	**R 1/15**
X	**C00115**	**649**	**Multiplier** Value to be used as a multiplier to obtain a new value	**O**	**R 1/10**
X	**MEA05**	**740**	**Range Minimum**	**X**	**R 1/20**
X	**MEA06**	**741**	**Range Maximum**	**X**	**R 1/20**
X	**MEA07**	**935**	**Measurement Significance Code**	**O**	**ID 2/2**
X	**MEA08**	**936**	**Measurement Attribute Code**	**X**	**ID 2/2**
X	**MEA09**	**752**	**Surface/Layer/Position Code**	**O**	**ID 2/2**
X	**MEA10**	**1373**	**Measurement Method or Device**	**O**	**ID 2/4**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **PTD** **Interval Detail (PTD~PM)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes: **1** If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: One PTD~PM loop is required for each meter channel for each unit of measure.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**PTD01**	**521**	**Product Transfer Type Code** Code identifying the type of product transfer PM Physical Meter Information Interval Detail	**M**	**ID 2/2**
X	**PTD02**	**648**	**Price Multiplier Qualifier**	**X**	**ID 3/3**
X	**PTD03**	**649**	**Multiplier**	**X**	**R 1/10**
>>	**PTD04**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification MG Meter Number	**X**	**ID 2/3**
>>	**PTD05**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**AN 1/30**
X	**PTD06**	**486**	**Product Transfer Movement Type Code**	**O**	**ID 2/2**

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

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Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **DTM** **Service Period Start (DTM~150)**
Position: 020
Loop: PTD 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:

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	**X**	**DT 8/8**
X	**DTM03**	**337**	**Time**	**X**	**TM 4/8**
X	**DTM04**	**623**	**Time Code**	**O**	**ID 2/2**
X	**DTM05**	**1250**	**Date Time Period Format Qualifier**	**X**	**ID 2/3**
X	**DTM06**	**1251**	**Date Time Period**	**X**	**AN 1/35**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **DTM** **Service Period End (DTM~151)**
Position: 020
Loop: PTD 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:

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	**X**	**DT 8/8**
X	**DTM03**	**337**	**Time**	**X**	**TM 4/8**
X	**DTM04**	**623**	**Time Code**	**O**	**ID 2/2**
X	**DTM05**	**1250**	**Date Time Period Format Qualifier**	**X**	**ID 2/3**
X	**DTM06**	**1251**	**Date Time Period**	**X**	**AN 1/35**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **DTM** **Meter Exchange Date (DTM~514)**
Position: 020
Loop: PTD 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: Used when a meter change out occurs. There will be two PTD loops - one for each meter
Date Range in the first PTD is shown as:
DTM~150~20010101
DTM~514~20010114~1200

Date Range in the second PTD is shown as:
DTM~514~20010114~1200
DTM~151~20010128

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 514 Transferred Exchange Date	**M**	**ID 3/3**
>>	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X**	**DT 8/8**
>>	**DTM03**	**337**	**Time** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) HHMM, where H = Hours (00 to 23) and M = Minutes (00 to 59) in Central Prevailing Time (CT). For this transaction, since X12 does not allow 2400 for time, 2359 will be used to indicate midnight. For example, midnight between October 15th and October 16th will be reflected as 2359 of October 15th.	**X**	**TM 4/8**
X	**DTM04**	**623**	**Time Code**	**O**	**ID 2/2**
X	**DTM05**	**1250**	**Date Time Period Format Qualifier**	**X**	**ID 2/3**
X	**DTM06**	**1251**	**Date Time Period**	**X**	**AN 1/35**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **REF** **Channel Number (REF~6W)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 6W Sequence Number Channel 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	**X**	**AN 1/30**
X	**REF03**	**352**	**Description**	**X**	**AN 1/80**
X	**REF04**	**C040**	**Reference Identifier** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	**O**	
X	**C04001**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**M**	**ID 2/3**
X	**C04002**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**M**	**AN 1/30**
X	**C04003**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**X**	**ID 2/3**
X	**C04004**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**AN 1/30**
X	**C04005**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**X**	**ID 2/3**
X	**C04006**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**AN 1/30**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **REF** **Meter Type (REF~MT)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification MT Meter Ticket Number Meter 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	**X**	**AN 1/30**
X	**REF03**	**352**	**Description**	**X**	**AN 1/80**
X	**REF04**	**C040**	**Reference Identifier** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier Note this is a composite data element. Populate C04001 and C04002.	**O**	
X	**C04001**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**M**	**ID 2/3**
X	**C04002**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier NOTE: Other codes (as identified by UIG) can be used to identify quantities measured by the meter, but should not be used to identify tariffed/calculated measurements.	**M**	**AN 1/30**
X	**C04003**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**X**	**ID 2/3**
X	**C04004**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**AN 1/30**
X	**C04005**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**X**	**ID 2/3**

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

Requesters:	**Retail Texas Task Force**
Request No.:	**2008 Annual Plan Item No. 3 (iv) and (v), Part 2:**
Request Title:	**ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)**

X	**C04006**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **REF** **Meter Role (REF~JH)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification JH Tag Meter Role	**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 A Additive This consumption must be added to the summarized total I Ignore This consumption did not contribute to the summarized total (do nothing) S Subtractive This consumption must be subtracted from the summarized total	**X**	**AN 1/30**
X	**REF03**	**352**	**Description**	**X**	**AN 1/80**
X	**REF04**	**C040**	**Reference Identifier** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	**O**	
X	**C04001**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**M**	**ID 2/3**
X	**C04002**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**M**	**AN 1/30**
X	**C04003**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**X**	**ID 2/3**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

X	**C04004**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**AN 1/30**
X	**C04005**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**X**	**ID 2/3**
X	**C04006**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**AN 1/30**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **QTY** **Quantity**
Position: 110
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**QTY01**	**673**	**Quantity Qualifier** Code specifying the type of quantity KA Estimated Quantity is estimated QD Quantity Delivered Quantity is actual	**M**	**ID 2/2**
>>	**QTY02**	**380**	**Quantity** Numeric value of quantity	**X**	**R 1/15**
X	**QTY03**	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use) Note this is a composite data element, populate C00101	**O**	
X	**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**
X	**C00102**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00103**	**649**	**Multiplier**	**O**	**R 1/10**
X	**C00104**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00105**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00106**	**649**	**Multiplier**	**O**	**R 1/10**
X	**C00107**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00108**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00109**	**649**	**Multiplier**	**O**	**R 1/10**
X	**C00110**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00111**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00112**	**649**	**Multiplier**	**O**	**R 1/10**
X	**C00113**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00114**	**1018**	**Exponent**	**O**	**R 1/15**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

X	C00115	649	Multiplier	O	R 1/10
X	QTY04	61	Free-Form Message	X	AN 1/30

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **DTM** **Interval End Date Time (DTM~194)**
Position: 210
Loop: QTY Optional
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:

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 194 Period End The date/time of the end of the interval	**M**	**ID 3/3**
>>	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X**	**DT 8/8**
>>	**DTM03**	**337**	**Time** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) HHMM, where H = Hours (00 to 23) and M = Minutes (00 to 59) in Central Prevailing Time (CT). For this transaction, since X12 does not allow 2400 for time, 2359 will be used to indicate midnight. For example, midnight between October 15th and October 16th will be reflected as 2359 of October 15th.	**X**	**TM 4/8**
X	**DTM04**	**623**	**Time Code**	**O**	**ID 2/2**
X	**DTM05**	**1250**	**Date Time Period Format Qualifier**	**X**	**ID 2/3**
X	**DTM06**	**1251**	**Date Time Period**	**X**	**AN 1/35**

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Segment: **SE** **Transaction Set Trailer**
Position: 030
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.

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.8.3.9.12 Historical Usage Data

Data Dictionary

Data Elem. Name	Description	Use	Condition	Comments [Options]
Transaction Purpose	Identifies the reason for sending this information	M		[52]
Usage ID	Unique ID created by the originator of the usage transaction; used for cross-reference between Usage, Invoice and Payment transactions	M		
Usage Date	Date this transaction was created by the sender's application system.	M		
Report Type Code	Identifies if usage is reported at interval, non-interval or mixed	M		[C1, DD, DR]
Reference Number	Original Transaction identifier of the Ad Hoc Historical usage Request	M		
ESI ID	Electric Service Identifier	M		
Non-Billing Party Invoice Due Date	The last date invoices will be accepted by the Billing Party for inclusion on the bill	RBC	CBBR only	
Registration Agent Name	Identifies the Registration Agent Name	M		
Registration Agent Id Number	Entity ID (DUNS Number or DUNS+4 Number) of the registration agent	M		
Entity Id Code	Identifies the sender or receiver of the transaction	M		[40, 41]
Supplier Name	Identifies the Supplier Name	M		
Supplier ID Number	Entity ID (DUNS Number or DUNS+4 Number) of the supplier			
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		
Usage Detail Category	Code that defines what type of detailed usage is reported	M		[PL- NON INTERVAL, BD – Unmetered Services, BO – Interval Summary, PM – Interval Detail]
Meter Number	Identifies the meter number	M		
Unmetered Service Type	Identifies the unmetered services	O		

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

Requesters: Retail Texas Task Force
Request No.: 2008 Annual Plan Item No. 3 (iv) and (v), Part 2:
Request Title: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)

Data Elem. Name	Description	Use	Condition	Comments [Options]
Unmetered Service Description	Description of the unmetered service Type	O		
Additive/Subtractive Code	Reports information related to master meters and the	O		[AI, AO, CD, DC, DM, MD]
Service Period Start Date	Identifies the start date of the service period being reported	M		
Service Period End Date	Identifies the end date of the service period being reported	M		
Meter Exchange Date	Identifies the date a meter was exchanged out; used in replace of the Start or End Service Period Date	O		
Meter Exchange Time	Identifies the time the meter was exchanged on an interval Account	O		
Meter Role	Identifies whether the consumption for this meter should be added or subtracted	M		[A, S, I]
Meter Type	Identifies the UOM and interval of the meter – i.e. KHMON, K1015	M		
Quantity Qualifier	Identifies if the usage provided is estimated, actual	M		[KA, QD]
Quantity	Provides the measured or estimate quantity for the usage period and unit of measure	M		
Unit of Measure	Identifies the unit of measure being measured	O		
Measurement	Total consumption after multiplier applied	M		
Time of Use Code	Identifies the time of use code of the measured quantity	M		
Transformer Loss Factor	Identifies the transformer loss Factor Code	O		
Multiplier	Identifies the multiplier for meter; if no multiplier this is set to 1	M		
Power Factor	Identifies the power factor	O		
Number of unmetered devices	Identifies the number of unmetered devices on the service	O		
Quantity per device	Identifies the usage per unmetered device	O		
Channel Number	Identifies the meter Channel on an interval account	O		
Interval Date	Identifies the date of the interval being measured	O		
Interval Time	Identifies the time of the interval being measured	O		

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

Requesters:	**Retail Texas Task Force**
Request No.:	**2008 Annual Plan Item No. 3 (iv) and (v),**
Part 2:	
Request Title:	**ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent (Technical X12 Implementation Guidelines and Data Dictionaries)**

4. SUPPORTING DOCUMENTATION

a. Description of Request:

Develop information requirements for submitting and receiving, processing and fulfilling technical requirements necessary to support a customer's request to enroll with or leave a supplier (including suppliers dropping customers) and for maintaining current customer account information, and for notifying affected parties.

b. Description of Recommendation:

See Summary

c. Business Purpose:

To support Model Business Practices: 2008 Retail Annual Plan Item No. 3 (iv) and (v), Part 1: ESI ID Set-up, ESI ID Information Change, and Ad Hoc Historical Usage Using a Registration Agent.

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

To: REQ/RGQ Executive Committee

From: Joint REQ/RGQ Business Practices Subcommittees (BPS)

Subject: Minor Corrections of Model Business Practices - Models

Date: November 14, 2008

The Joint Retail Electric (REQ) and Retail Gas (RGQ) Quadrant Business Practices Subcommittees (BPS) in reviewing the existing Model Business Practices, noted modifications were required to the Models in Book 2 – Creditworthiness. The following minor corrections, to be applied to the attached models, are submitted for consideration and approval by the REQ/RGQ Executive Committees:

1. Delete subtitles and notes at the bottom of the pages which are irrelevant to the Process Flows;

2. Correct references to Model Business Practices;

3. Capitalize defined terms and lower case undefined terms; and

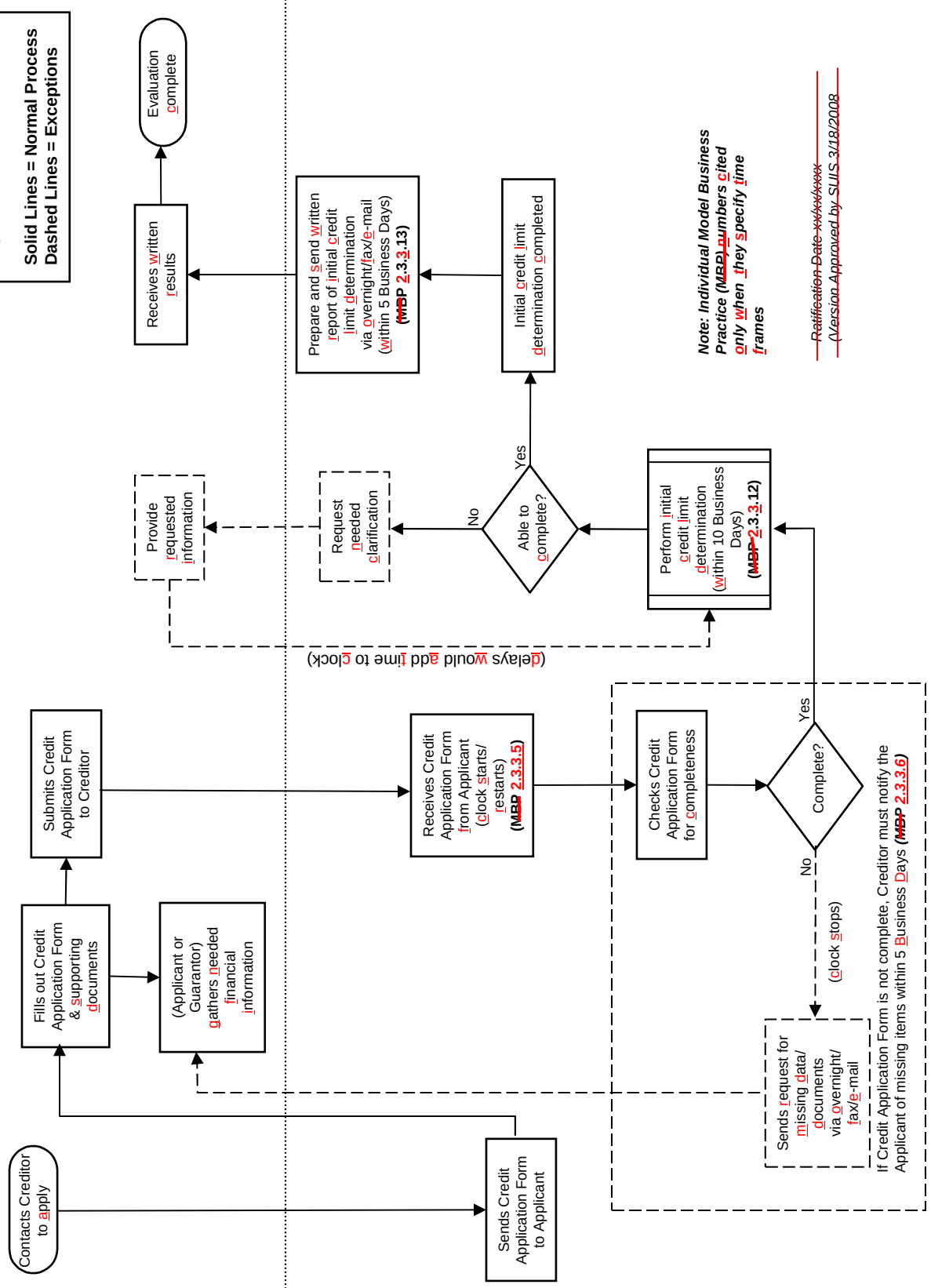
4. Replace the term "Switches" with "Enrollment Requests" on the last page since the term "switches" was deleted.

The REQ/RGQ BPS believes the minor corrections as stated above do not change the intent or substance of the Models.

Attachment:
Models: http://www.naesb.org/pdf4/retail_ec020409w2.ppt (Redlined)

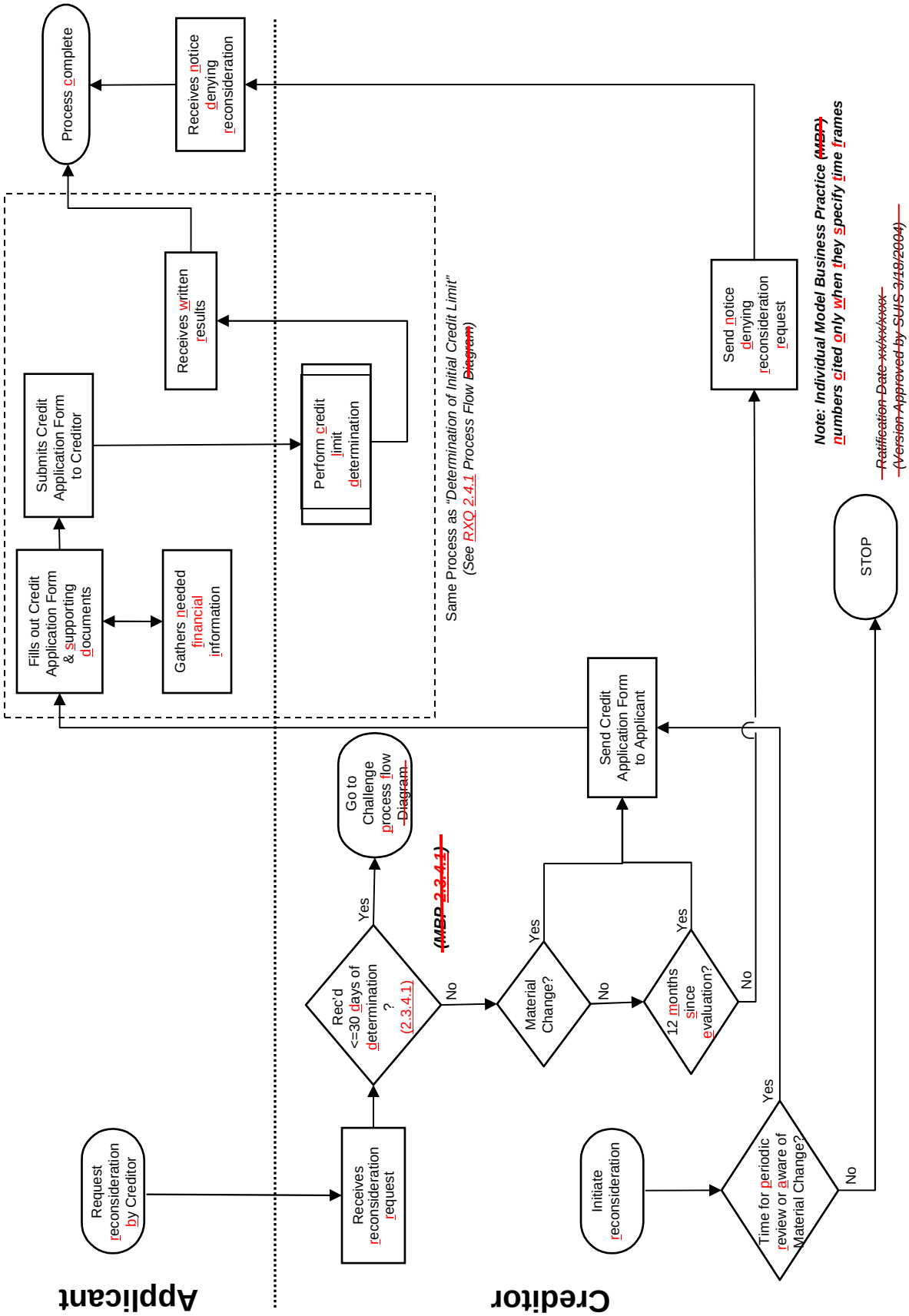
Determination of Initial Credit Limit - Process Flow

~~Creditworthiness Evaluation Process (Section 1.3.3.1)~~



Reconsideration of Determination of Initial Credit Limit - Process Flow

~~Creditworthiness Evaluation Process (Section 1.4.3.1)~~



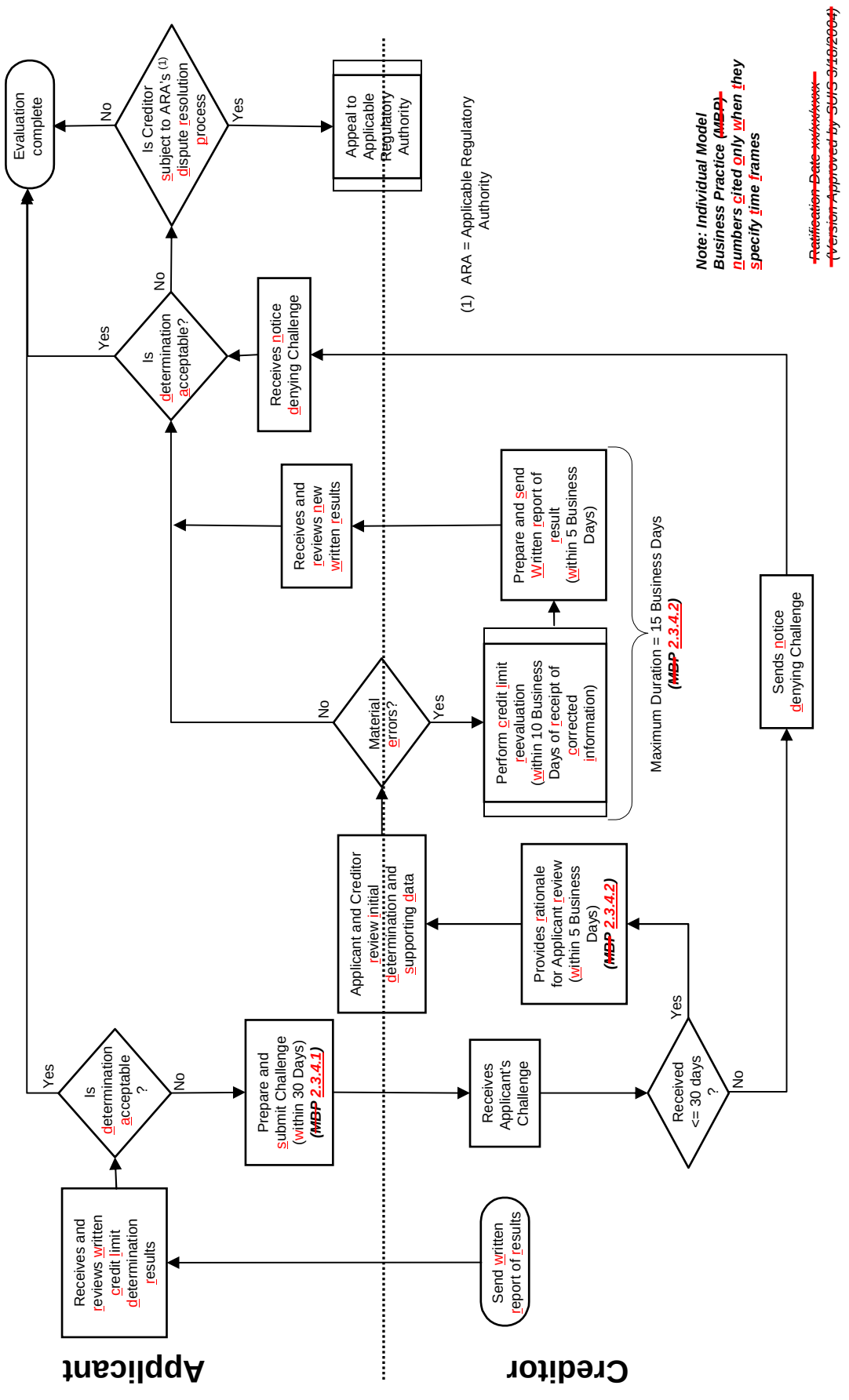
Note: Individual Model Business Practice (MBP) numbers cited only when they specify time frames

~~*Ratification Date xx/xx/xxxx*~~

~~*(Version Approved by SUIS 3/18/2004)*~~

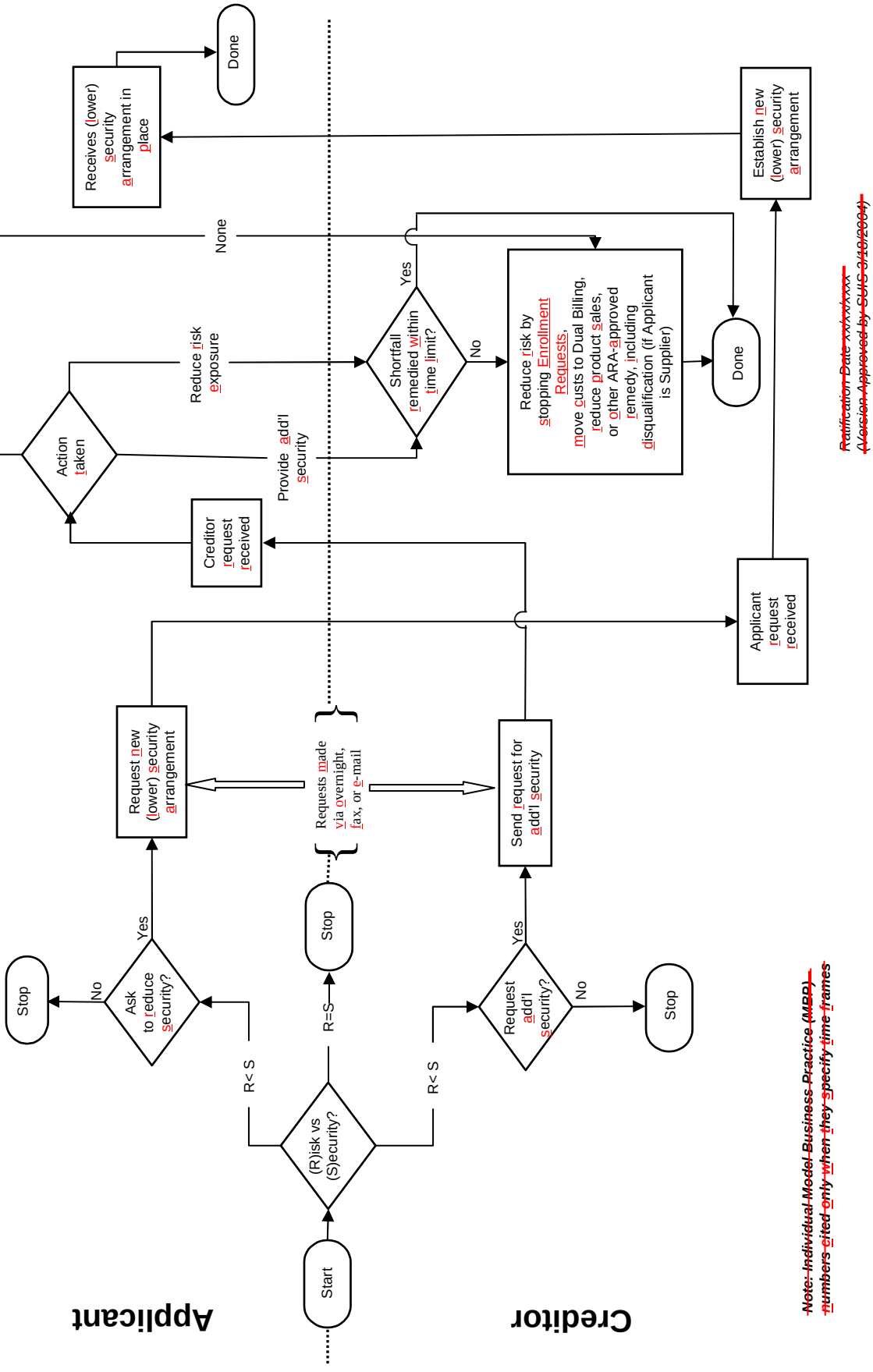
Reconsideration of Determination of Initial Credit Limit – Challenge Process Flow

~~Creditworthiness Evaluation Process (Section 1.4.3.2)~~



Disqualification/Remedies - Process Flow

~~Disqualification/Remedies (Section 1.5.3.1)~~



~~*Note: Individual Model Business Practice (MBP) numbers cited only when they specify time frames*~~

~~*Ratification Date xx/xx/xxxx*~~
~~*(Version Approved by SUIG 3/18/2004)*~~

North American Energy Standards Board

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January 22, 2009

RE: Excerpt of 11-21-08 Naesb Operating Practices – Minor Corrections

Minor Clarifications and Corrections to Standards

Minor clarifications and corrections to existing standards include: (a) clarifications or corrections made by a regulatory agency to standards that are of a jurisdictional nature, or by the American National Standards Institute or its successor; (b) clarifications or corrections to the format, appearance, or descriptions of standards in standards documentation; (c) clarifications or corrections to add code values to tables; and (d) clarifications and corrections that do not materially change a standard.

Any request for a minor clarification or correction to an existing standard should be submitted in writing to the executive director. This request shall include a description of the minor clarification or correction and the reason the clarification or correction should be implemented.

1. Processing of Requests

The executive director shall promptly notify the EC and any appropriate subcommittee(s) of the receipt of the request. The members of the applicable quadrant's EC shall promptly determine whether the request meets the definition of a minor clarification or correction. Through the decision of the vice chair of the applicable quadrant, this determination may be delegated to one of the quadrant's subcommittees, with the concurrence of the subcommittee chair, in which case the subcommittee shall make a prompt decision.

If the request is determined to meet the definition of minor clarification or correction, the applicable quadrant's EC, with input from any subcommittee(s) to which the request has been forwarded, shall act on the request within one month of its receipt. A meeting to discuss the request is not required; the decision may be made by notational vote. A simple majority of the votes received shall determine the outcome. The members of the applicable quadrant's EC shall be given at least three working days to consider and vote on the request.

2. Public Notice

The results of the vote on the request for a minor clarification or correction shall be posted on the NAESB website and the members of the applicable quadrant shall be notified of the request by e-mail. If the request has been approved by the applicable quadrant's EC, the notification shall include a brief description of the request, the contact name and number of the requester so that further information can be obtained, and the proposed effective date of the clarification or correction. The proposed effective date of the minor clarification or correction shall normally be one month from the date of the public notice. Any interested party shall have an opportunity to comment on the request, and the comments shall be posted on the NAESB website. The comment period is two weeks.

3. Final Disposition of Approved Requests

If no comments are received on an approved request, the standard shall be clarified or corrected as specified in the approved request on the effective date proposed. If comments are received, they shall be forwarded to the members of the applicable quadrant's EC for consideration. Each comment requires a public written response from the applicable quadrant's EC. The applicable quadrant's EC shall determine whether changes are necessary as a result of the comments. Members of the applicable quadrant's EC shall be given three working days to consider the comments and determine the outcome, which shall be decided by a simple majority of the votes received. A meeting to discuss the request is not required; the decision may be made by notational vote. The standard shall be clarified or corrected in accordance with the outcome of the vote, effective with the completion of voting, and notice thereof shall be posted on the NAESB website.

North American Energy Standards Board

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Home Page: www.naesb.org

NAESB UPDATE: VERSION 2 -- RETAIL
SEPTEMBER 3, 2008

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". (*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. (*Ratified 9/26/05*).

2006:

- **Recommendation R05013:** Develop a model electric retail contract. (*Ratification ballots due on 01/07/07*).
- **Retail 2006 Annual Plan Item 4(i):** Customer Enrollment model business practices. (*Ratification ballots due on 01/07/07*).

2007:

- **2007 Retail Annual Plan Item 3a(ii):** "Customer Drop" model business practices. (*Ratified August 20, 2007).*
- **Third Recommendation for 2007 Annual Plan Item 1(a):** "Additional Billing and Payment Model Business Practices" *(Ratified August 20, 2007)*
- **Second Recommendation for 2007 Retail Annual Plan Item 1 (a):** "Technical Electronic Implementation Standards for Billing and Payment: Recommendation Attachment: http://www.naesb.org/member_login_form.asp?doc=retail_rat071907_2007_retail_api1a_rec_rev050907_attachment.doc. (*Ratified August 20, 2007).*
- **2005 Annual Plan Item 3:** "Customer Information. (*Ratified August 20, 2007).*
- **Recommendation for Retail 2007 Annual Plan Item 3a(ii)** - Customer Drop (*Ratified August 20, 2007*)
- **Recommendation for Retail 2007 Annual Plan Item 1(a)** – Additional Billing and Payment MBPs; Attachment to Recommendation (*Ratified August 20, 2007)*
- **Recommendation for Retail 2005 Annual Plan Item 3** – Customer Information (*Ratified August 20, 2007*)
- **Recommendation R05016** - Standards or model business practices for electronic retail billing transactions and bill payment transactions between customers, suppliers, and utilities (*Ratified August 20. 2007*)

2008:

- **Recommendation for 2007 WGQ Annual Plan Item 4 and Retail 2007 Annual Plan Item 6** - Prepare a joint analysis for AS2 and AS3 protocols as compared to the NAESB IET: http://www.naesb.org/doc_view2.asp?doc=retail_rat010808_wgq_2007_ap_i4_retail_2007_ap_i6_rec.doc – Ratified February 8, 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

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NAESB UPDATE: VERSION 2 -- RETAIL
SEPTEMBER 3, 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
- **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 - 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 - Ratified June 22, 2008.
  - 2008 Retail Annual Plan Item 3(i), (ii), (iii) Final Action - Attachment - Ratified June 22, 2008.
- 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** -- Customer Enrollment, Drop and Account Information Change including Using a Registration Agent (Technical X12 Implementation Guidelines), http://www.naesb.org/pdf3/2008_retail_api_2a_rec.doc – Action pending by the Retail ECs, comments were due August 22.

TIMELINE:

- Version 2.0 publication date was originally scheduled for yearend 2007, but has now been scheduled for late 2008 or 1st quarter 2009 to permit the registration model and the Sandia enhancements to be reflected in the documents.
- 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.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: WEQ

December 2, 2008
Requesters:DSM-EE Subcommittee
Request No.: 2008 AP Item 5(a)
Review and develop business practice standards to support DR and DSM-EE programs

Proposed Standards approved by the subcommittee on December 2, 2008

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

3. RECOMMENDATION

SUMMARY:

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

RECOMMENDED STANDARDS:

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

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

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

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4. SUPPORTING DOCUMENTATION

a. Description of Request:

Develop business practices to support demand side management and energy efficiency programs in the wholesale and retail electric markets.

b. Description of Recommendation:

For the first phase, develop business practices to support the measurement and verification aspects of the wholesale market demand response programs.

c. Business Purpose:

The business practices may be used by the administrators of wholesale demand response programs to add market transparency and understanding in the application of the measurement and verification characteristics of those programs.

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

- **April 11, 2007:** Several representatives of the NAESB WEQ, REQ, and RGQ as well as representatives of the US Department of Energy, US Environmental Protection Agency, FERC, and other industry experts met at the Department of Energy offices in Washington, D.C. to discuss the NAESB effort to draft business practices for Demand Side Management and Energy Efficiency. Ongoing Energy Efficiency and DSM projects and programs by other groups (such as NAPEE) were reviewed by the meeting attendees. The following resolution outlines the scope of the initial effort by NAESB to draft business practice standards for these topics: It was decided that NAESB should begin its standards development focus on measurement and verification of energy savings and peak demand reduction from both a wholesale and retail electric market perspective. A future schedule of meetings for DSM and Energy Efficiency should be posted on the NAESB website shortly.
- **May 24, 2007:** 75 NAESB members, FERC, DOE, EEI, ISO and State regulatory personnel, experts in DSM and energy markets participants (22% more than the first meeting) met in person and by conference telephone at NAESB headquarters in Houston to refine the scope of Phase 1 activities, agreeing on a specific list of tasks and assigning subgroups of volunteers to work on each task. At this meeting, no less than 28 individuals spoke to the group.
- **June 18, 2007:**. 51 NAESB members, FERC, DOE, EEI, ISO and State regulatory personnel, experts in DSM and energy markets participants met in person and by conference telephone at BGE offices in Baltimore to further refine the scope of Phase 1 activities by reviewing the initial task list and revising it with more detailed deliverable requirements and dates, and with identification of base documents to support completing each task.
- **July 26, 2007:** 46 NAESB members, FERC, DOE, EEI, ISO and State regulatory personnel, experts in DSM and energy markets participants met in person and by conference telephone at AGA offices in Washington DC to present deliverables of existing demand response measurement and verification protocols and a list of 41 possible topics and subtopics for NAESB model

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business practices. The task force reviewed all 41 possibilities, deciding whether to draft MBPs and which ones can be grouped together.

- **September 14, 2007:** The results of the meeting including possible standards text were sent out for comment including notes, considerations and possible standards text. Comments were requested on each of the nine standards development areas including whether the remarks were directed to wholesale or retail markets, pre program evaluation or post implementation evaluation, or to DSM or EE projects.
- **September 25, 2007:** A DSM-EE meeting was held in Austin, Texas hosted by ERCOT. The purpose of the meeting was to review the comments, determine the level of progress made towards the task list and determine if adjustments to the task, focus or schedule were needed. When reviewing the comments it was determined to focus in five areas specific to demand response programs, and develop business practice standards that would prove helpful – (1) DR programs administered by ISOs and RTOS in the wholesale markets, (2) DR programs administered by utilities in wholesale markets, (3) DR programs administered by utilities in the retail markets, (4) a glossary to support the DR programs, and (5) a preamble to put the business practice standards in context. To focus on the DR programs, each of the three areas outlined will develop a matrix that describes the aspects of the DR programs in effect today, planned, or has been in effect in the past.
- **November 6, 2007:** Several of the NAESB leadership met with Commissioners Kerr and Ervin of NC to gain further understanding of expectations for DSM-EE NAESB activity for electricity for the retail markets.
- **November 11, 2007**: NAESB participated in a panel on DSM-EE at the NARUC Annual Meeting in Anaheim.
- **November 30, 2007:** Meeting hosted by Dominion in Richmond. During the meeting, each of the five groups described the progress made and plans to date. Drafts of the three matrices were reviewed, as was a draft glossary and outline for the preamble. It is possible that the two wholesale matrices will be combined. The calendar for 2008 was also set. The next meeting is scheduled for January 23 in Baltimore hosted by BGE.
- **December 3, 2007:** A meeting was held with Commissioner Mason of Ohio to gain further understanding of expectations for DSM-EE NAESB activity for natural gas for the retail markets.
- **January 23, 2008:** The group met in Baltimore to review progress on the two matrices, the preamble and the glossary. The wholesale matrix for DR programs administered by ISOs and RTOs was reviewed. Data is being placed in five separate categories -Initial Testing and Auditing, Ongoing Testing and Auditing, Triggering; Construction, Statistical Analysis, Performance and Baselines. The matrix for retail DR programs is lagging but several companies have provided or agreed to provide data – including BGE, Dominion, ConEd, Alabama Power and ComVerge. Procedures for how to collect the data was discussed with both interviews online and distributed surveys discussed. Both the preamble and glossary while first drafts are available are dependent on the work of the matrices and cannot be further developed until after more progress has been made on the matrices.
- **March 28, 2008:** The group met in Houston to review progress on the two matrices. The wholesale matrix for DR programs administered by ISOs and RTOs was reviewed. The matrix had

expanded significantly to provide for more comparability for responses. 45 DR programs have been identified and the data is now being verified. A template for the type of standards to be expected from this effort was reviewed. The retail matrix now has additional data and several interviews were conducted online, with the conclusion that it is the preferred way to gather data. The retail group is to set up a face-to-face meeting in May to review the matrix and make changes before sending it out to utilities for interviews.

- **May 30, 2008** – The group met in Holyoke to continue review progress on the two matrices. The wholesale matrix for DR programs administered by ISOs and RTOs was reviewed. The matrix had expanded significantly to provide for more comparability for responses. With the 45 DR programs identified, the group is now consolidating the data to higher levels from the more specific items collected. With the consolidation, the business practices should be drafted. The outline for the business practices has been prepared. The retail matrix now has contributions from 11 DR programs and the matrix structure is being validated against flow charts of the programs. Once the matrix structure is validated, online interviews will be held. It was determined to concentrate on dispatchable DR programs first.
- **July 30, 2008** –The group met in Carmel, Indiana hosted by ACES Power to review the progress made in the two efforts. With the 45 DR programs identified, the wholesale group has consolidated the data to higher levels and draft language is being developed around four product types, energy, capacity, regulation and reserves which incorporate information from various ISO/RTOs, as well as other entities. For the retail effort, the group is relying on work from AEIC regarding process flow and applying that flow to DR programs in place. From the flows, draft standards are being prepared. Once the draft standards are prepared, efforts will being to collect through interviews information from other utilities, geographically diverse and administering programs different from those already documented. Through the interviews it is expected that we would validate both the matrix and the draft standards. The retail group is initially focusing on dispatchable DR programs. Coordination is also underway with NERC on the development of a DR survey and with the AEIC. Work will soon begin with both groups to include the glossary and the preamble text.
- **October 3, 2008** –The group met in Austin, Texas hosted by ERCOT to review prorgess made in development of M&V standards for retail and wholesale DR programs. A recommendation of business practice standards for the wholesale market was reviewed by the group. After discussion, it was the intent that the recommendation be distributed for a two week informal comment period. The comments would be discussed at the December meeting including any suggested changes. After discussion on December 2, the recommendation will either be voted out of subcommittee and would proceed to a formal comment period and Executive Committee consideration, or the recommendation would continue to be modified by the subcommittee through another round of informal comments. For retail, the subgroup has collected detailed data on some DR programs underway. After review of the wholesale effort, it was discussed that the retail subgroup would hold a two day session to determine whether to proceed at the level defined in the wholesale recommendation, or proceed to define more prescriptive standards.
- **December 2, 2008** – The group met in Birmingham hosted by Alabama Power to review comments and vote on the recommendation for Wholesale Electric Quadrant standards for M&V characteristics for DR products and services. After considerable discussion, and several votes to

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amend the recommendation the recommendation with the amendments put forward by the ISOs and RTOs and three separate amendments addressing titling, applicability, and additional specificity for the definition of Baseline, the motion to adopt the revised recommendation was approved with significant support.with 86.5 percent approval by balanced vote. All WEQ segments were present and voting. The revised recommendation will go out for a thirty day comment period and is now considered a work product of the WEQ EC. The abbreviated update report was given for the Retail market effort. The Retail group plans to use the WEQ revised recommendation as a foundation for their work.

e. Additional Background documentation

- DSM-EE NAESB page for meetings and materials: http://www.naesb.org/dsm-ee.asp
- Presentation of the wholesale recommendation given on October 3: ISO presentation - http://www.naesb.org/pdf3/dsmee100308w7.pdf
- Presentation on the NAESB process to be used – given on October 3: http://www.naesb.org/pdf3/dsmee100308w8.pdf

[At a later time a supporting document with clarifying information will be provided as a Technical Implementation Business Practice]

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Business Practices for a Framework for Measurement and Verification of Wholesale Electricity Demand Response

Introduction

1. Measurement and Verification Standards

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

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

2. Applicability of Measurement and Verification Standards:

ISO/RTO Administered Markets

These standards are applicable only to Independent System Operator-Regional Transmission Organization administered markets in North America. The standards reflect business practices applicable to measurement and verification of wholesale market Demand Response services including the following four product/service categories[1]:

Energy Service

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

Capacity Service

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

Reserve Service

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

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

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Regulation Service

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

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

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

Tariff Conflict and NERC Standards:

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

Non-ISO/RTO Markets:

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

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3. Overview of the Standards

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

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

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Performance Evaluation Methodology

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

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

These standards do not specify detailed characteristics of performance evaluation methodologies, but rather provide a framework that may be used to develop performance evaluation methodologies for specific Demand Response services. This approach is believed to be most appropriate at this time as development of performance evalaution methodologies and baseline calculations continues to mature. The following methodology types are applicable to wholesale Demand Response Services:

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

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

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

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

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

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

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Definition of Terms

DEMAND RESPONSE EVENT TERMS

Illustration of Timing of a Demand Response Event

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

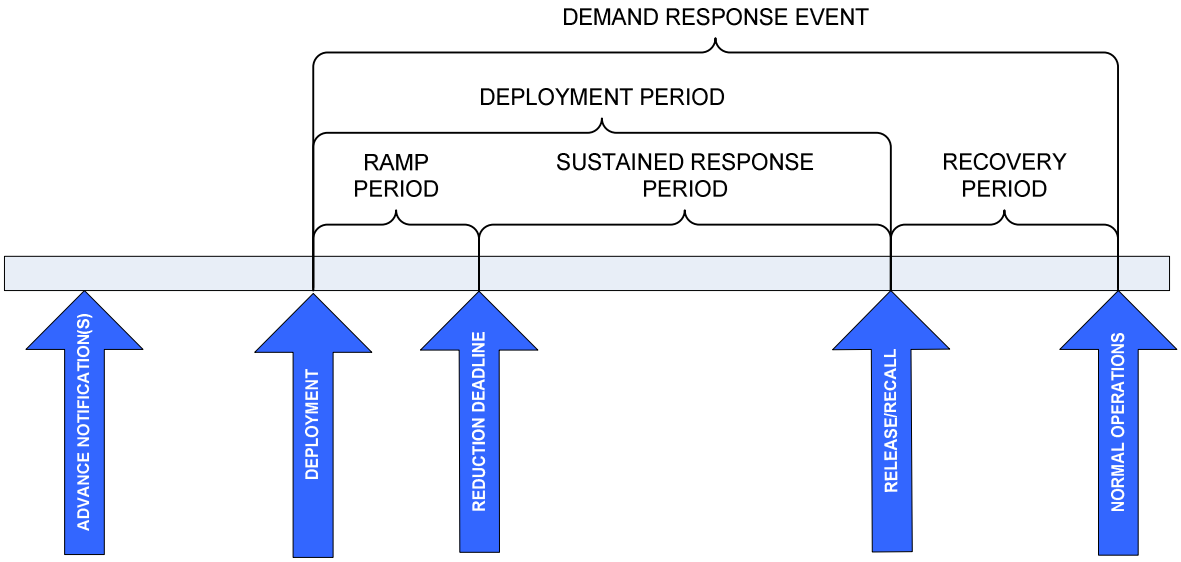

Figure 1. Timing of a Demand Response Event

The following terms refer to the above Figure 1.

Advance Notification(s)

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

Demand Response Event

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

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Deployment

The time at which a Demand Resource begins reducing Demand on the system in response to an instruction.

Deployment Period

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

Normal Operations

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

Ramp Period

The time between Deployment and Reduction Deadline, representing the period of time over which a Demand Resource is expected to achieve its change in Demand.

Recovery Period

The time between Release/Recall and Normal Operations, representing the window over which Demand Resources are required to return to their normal Load .

Reduction Deadline

The time at the end of the Ramp Period when a Demand Resource is required to have met its Demand Reduction Value obligation.

Release/Recall

The time when a System Operator or Demand Response Provider notifies a Demand Resource that the Deployment Period has ended or will end.

Sustained Response Period

The time between Reduction Deadline and Release/Recall, representing the window over which a Demand Resource is required to maintain its reduced net consumption of electricity.

GENERAL TERMS

Adjustment Window

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

After-the-Fact Metering

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

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Aggregated Demand Resource

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

Baseline

A Baseline is an estimate of the electricity that would have been consumed by a Demand Resource in the absence of a Demand Response Event. The Baseline is compared to the actual metered electricity consumption during the Demand Response Event to determine the Demand Reduction Value. Depending on the type of Demand Response product or service, Baseline calculations may be performed in real-time or after-the-fact. The System Operator may offer multiple Baseline models and may assign a Demand Resource to a model based on the characteristics of the Demand Resource's Load or allow the Demand Resource to choose a performance evaluation model consistent with its load characteristics from a predefined list. A baseline model is the simple or complex mathematical relationship found to exist between Baseline Window demand readings and Independent Variables. A baseline model is used to derive the Baseline Adjustments which are part of the Baseline, which in turn is used to compute the Demand Reduction Value. Independent variable is a parameter that is expected to change regularly and have a measureable impact on demand. Figure 2. below illustrates the concept of Baseline relative to a Demand Response Event.

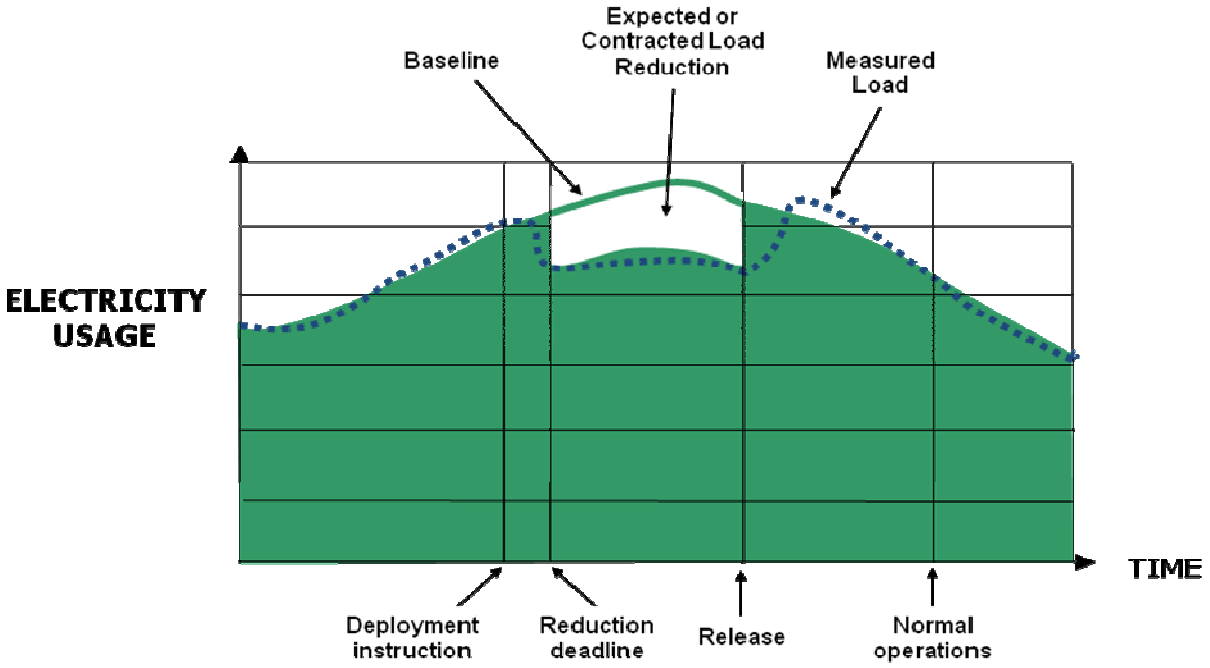

Figure 2. Illustration of Baseline Concept.

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Baseline Adjustment

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

Baseline Type-I (Interval Metered)

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

Baseline Type-II (Non-Interval Metered)

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

Baseline Window

The window of time preceding and optionally following, a Demand Response Event over which the electricity consumption data is collected for the purpose of establishing a Baseline. The applicability of this term is limited to Meter Before/Meter After, and Baseline Type-I and Type-II.

Capacity Service

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

Demand Response Provider

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

Demand

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

Demand Reduction Value

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

Demand Resource

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

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Demand Response

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

Energy Service

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

Highly-Variable Load

A Load with a fluctuating or unpredictable electricity consumption pattern.

Load

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

Maximum Base Load

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

Meter Before / Meter After

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

Meter Data Recording Interval

The time between electricity meter consumption recordings.

Meter Data Reporting Deadline

The maximum allowed time from the end of a Demand Response Event (Normal Operations) to the time when meter data is required to be submitted for performance evaluation and settlement. The Meter Data Reporting Deadline may be either relative (a number of hours/days after Normal Operations) or fixed (a fixed calendar time, such as end-of-month).

Metering Generator Output

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

Performance Window

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

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Ramp Rate

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

Regulation Service

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

Reserve Service

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

System Operator

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

Telemetry

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

Telemetry Interval

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

Validation, Editing and Estimation

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

Business Practice Requirements:

Provision of Wholesale Electric Demand Response Energy Products

Applicability

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

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: WEQ

December 2, 2008
Requesters:DSM-EE Subcommittee
Request No.: 2008 AP Item 5(a)
Review and develop business practice standards to support DR and DSM-EE programs

Proposed Standards approved by the subcommittee on December 2, 2008

Purpose

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

015-1.0 GENERAL

- **Advance Notification**

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

- **Deployment Time**

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

- **Reduction Deadline**

  The System Operator shall specify the Reduction Deadline.

- **Release/Recall**

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

- **Normal Operations**

  The System Operator shall specify Normal Operations.

- **Demand Resource Availability Measurement**

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

- **Aggregation**

  The System Operator shall specify any requirements for aggregated Demand.

- **Transparency of Requirements**

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

015-1.1 TELEMETRY

- **Telemetry Requirement**

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

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: WEQ

December 2, 2008
Requesters:DSM-EE Subcommittee
Request No.: 2008 AP Item 5(a)
Review and develop business practice standards to support DR and DSM-EE programs

Proposed Standards approved by the subcommittee on December 2, 2008

- **On-Site Generation Telemetry**

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

- **Telemetry Accuracy**

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

- **Telemetry Interval**

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

- **Other Telemetry Measurements**

  The System Operator shall specify any additional Telemetry data requirements.

- **Communication Protocol**

  The System Operator shall specify the Telemetry communication protocol.

- **Governor Control Equivalent**

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

015-1.2 AFTER-THE-FACT METERING

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

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

- **Meter Accuracy**

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

- **Details of Meter/Equipment Standards**

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

- **Meter Data Reporting Deadline**

  The System Operator shall specify the Meter Data Reporting Deadline.

- **Meter Data Reporting Interval**

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

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: WEQ

December 2, 2008
Requesters:DSM-EE Subcommittee
Request No.: 2008 AP Item 5(a)
Review and develop business practice standards to support DR and DSM-EE programs

Proposed Standards approved by the subcommittee on December 2, 2008

- **Clock / Time Accuracy**

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

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

  The System Operator shall specify VEE requirements.

- **On-Site Generation Meter Requirement**

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

015-1.3 PERFORMANCE EVALUATION

- **Rules for Performance Evaluation**

  Performance shall be evaluated through the use of one of the following methods unless otherwise specified by the System Operator:
  - Maximum Base Load
  - Meter Before / Meter After
  - Baseline Type-I
  - Baseline Type-II
  - Metering Generator Output

Business Practice Requirements:

Provision of Wholesale Electric Demand Response Capacity Products

Applicability

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

Purpose

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

015-1.4 GENERAL

- **Advance Notification**

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

- **Deployment Time**

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

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: WEQ

December 2, 2008
Requesters:DSM-EE Subcommittee
Request No.: 2008 AP Item 5(a)
Review and develop business practice standards to support DR and DSM-EE programs

Proposed Standards approved by the subcommittee on December 2, 2008

- **Reduction Deadline**

  The System Operator shall specify the Reduction Deadline.

- **Release/Recall**

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

- **Normal Operations**

  The System Operator shall specify Normal Operations.

- **Demand Resource Availability Measurement**

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

- **Aggregation**

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

- **Transparency of Requirements**

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

015-1.5 TELEMETRY

- **Telemetry Requirement**

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

- **On-Site Generation Telemetry**

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

- **Telemetry Accuracy**

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

- **Telemetry Interval**

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

- **Other Telemetry Measurements**

  The System Operator shall specify any additional Telemetry data requirements.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: WEQ

December 2, 2008
Requesters:DSM-EE Subcommittee
Request No.: 2008 AP Item 5(a)
Review and develop business practice standards to support DR and DSM-EE programs

Proposed Standards approved by the subcommittee on December 2, 2008

- **Communication Protocol**

  The System Operator shall specify the Telemetry communication protocol.

- **Governor Control Equivalent**

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

015-1.6 AFTER-THE-FACT METERING

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

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

- **Meter Accuracy**

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

- **Details of Meter/Equipment Standards**

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

- **Meter Data Reporting Deadline**

  The System Operator shall specify the Meter Data Reporting Deadline.

- **Meter Data Reporting Interval**

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

- **Clock / Time Accuracy**

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

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

  The System Operator shall specify VEE requirements.

- **On-Site Generation Meter Requirement**

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

015-1.7 PERFORMANCE EVALUATION

- **Rules for Performance Evaluation**

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

  - Maximum Base Load
  - Meter Before / Meter After

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: WEQ

December 2, 2008
Requesters:DSM-EE Subcommittee
Request No.: 2008 AP Item 5(a)
Review and develop business practice standards to support DR and DSM-EE programs

Proposed Standards approved by the subcommittee on December 2, 2008

- Baseline Type-I
- Baseline Type-II
- Metering Generator Output

Business Practice Requirements:

Provision of Wholesale Electric Demand Response Reserve Products

Applicability

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

Purpose

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

015-1.8 GENERAL

- **Advance Notification**

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

- **Deployment Time**

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

- **Reduction Deadline**

  The System Operator shall specify the Reduction Deadline.

- **Release/Recall**

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

- **Normal Operations**

  The System Operator shall specify Normal Operations.

- **Demand Resource Availability Measurement**

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

- **Aggregation**

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

- **Transparency of Requirements**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: WEQ

December 2, 2008
Requesters:DSM-EE Subcommittee
Request No.: 2008 AP Item 5(a)
Review and develop business practice standards to support DR and DSM-EE programs

Proposed Standards approved by the subcommittee on December 2, 2008

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

015-1.9 TELEMETRY

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

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

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

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

  The System Operator shall specify any additional Telemetry data requirements.
- **Communication Protocol**

  The System Operator shall specify the Telemetry communication protocol.
- **Governor Control Equivalent**

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

015-1.10 AFTER-THE-FACT METERING

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

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

  The System Operator shall specify the accuracy of the After-the-Fact Metering not to exceed 3% of full scale.
- **Details of Meter/Equipment Standards**

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

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: WEQ

December 2, 2008
Requesters:DSM-EE Subcommittee
Request No.: 2008 AP Item 5(a)
Review and develop business practice standards to support DR and DSM-EE programs

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The System Operator shall specify the Meter Data Reporting Deadline.

- **Meter Data Reporting Interval**

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

- **Clock / Time Accuracy**

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

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

  The System Operator shall specify VEE requirements.

- **On-Site Generation Meter Requirement**

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

015-1.11 PERFORMANCE EVALUATION

- **Rules for Performance Evaluation**

  Performance shall be evaluated through the use of one of the following methods unless otherwise specified by the System Operator:
  - Maximum Base Load
  - Meter Before / Meter After
  - Baseline Type-I
  - Baseline Type-II
  - Metering Generator Output

Business Practice Requirements:

Provision of Wholesale Electric Demand Response Regulation Products

Applicability

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

Purpose

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

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: WEQ

December 2, 2008
Requesters:DSM-EE Subcommittee
Request No.: 2008 AP Item 5(a)
Review and develop business practice standards to support DR and DSM-EE programs

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015-1.12 GENERAL

- **Advance Notification**

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

- **Deployment Time**

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

- **Reduction Deadline**

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

- **Release/Recall**

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

- **Normal Operations**

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

- **Demand Resource Availability Measurement**

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

- **Aggregation**

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

- **Transparency of Requirements**

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

015-1.13 TELEMETRY

- **Telemetry Requirement**

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

- **On-Site Generation Telemetry**

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

- **Telemetry Accuracy**

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

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: WEQ

December 2, 2008
Requesters:DSM-EE Subcommittee
Request No.: 2008 AP Item 5(a)
Review and develop business practice standards to support DR and DSM-EE programs

Proposed Standards approved by the subcommittee on December 2, 2008

- **Telemetry Interval**

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

- **Other Telemetry Measurements**

  The System Operator shall specify any additional Telemetry data requirements.

- **Communication Protocol**

  The System Operator shall specify the Telemetry communication protocol.

- **Governor Control Equivalent**

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

015-1.14 AFTER-THE-FACT METERING

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

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

- **Meter Accuracy**

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

- **Details of Meter/Equipment Standards**

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

- **Meter Data Reporting Deadline**

  The System Operator shall specify the Meter Data Reporting Deadline.

- **Meter Data Reporting Interval**

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

- **Clock / Time Accuracy**

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

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

  The System Operator shall specify VEE requirements.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: WEQ

December 2, 2008
Requesters:DSM-EE Subcommittee
Request No.: 2008 AP Item 5(a)
Review and develop business practice standards to support DR and DSM-EE programs

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- **On-Site Generation Meter Requirement**

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

015-1.15 PERFORMANCE EVALUATION

- **Rules for Performance Evaluation**

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

  - Meter Before / Meter After
  - Metering Generator Output

Business Practice Requirements

Maximum Base Load Evaluation

015-1.16 BASELINE INFORMATION

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

015-1.17 EVENT INFORMATION

- **Use of Real-Time Telemetry**

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

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

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

- **Performance Window**

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

- **Measurement Type**

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

  a) Peak Demand
  b) Average Demand

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: WEQ

December 2, 2008
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Request No.: 2008 AP Item 5(a)
Review and develop business practice standards to support DR and DSM-EE programs

Proposed Standards approved by the subcommittee on December 2, 2008

015-1.18 SPECIAL PROCESSING

The System Operator shall specify any special processing rules.

Business Practice Requirements

Meter Before / Meter After

015-1.19 BASELINE INFORMATION

- **Baseline Window**

  The System Operator shall specify the Baseline Window.

- **Calculation Type**

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

  a) Instantaneous
  b) Maximum
  c) Average

- **Sampling Precision and Accuracy**

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

- **Exclusion Rules**

  The System Operator shall specify any exclusion rules.

- **Baseline Adjustments**

  The System Operator shall specify any event-day adjustments.

- **Adjustment Window**

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

015-1.20 EVENT INFORMATION

- **Use of real-time Telemetry**

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

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

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

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: WEQ

December 2, 2008
Requesters:DSM-EE Subcommittee
Request No.: 2008 AP Item 5(a)
Review and develop business practice standards to support DR and DSM-EE programs

Proposed Standards approved by the subcommittee on December 2, 2008

- **Performance Window**

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

- **Measurement Type**

  During the Performance Window, the Demand Resource shall be evaluated using one of the following measurements unless otherwise specified by the System Operator:
  a) Instantaneous
  b) Maximum
  c) Average

015-1.21 SPECIAL PROCESSING

- **Highly-Variable Load Logic**

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

- **On-Site Generation Requirements**

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

Business Practice Requirements

Baseline Type-I (Interval Meter)

015-1.22 BASELINE INFORMATION

- **Baseline Window**

  The System Operator shall specify the Baseline Window.

- **Calculation Type**

  The System Operator shall specify the method of developing the Baseline value using, but not limited to, the following calculation types:
  a) Maximum
  b) Average
  c) Regression

- **Sampling Precision and Accuracy**

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

- **Exclusion Rules**

  The System Operator shall specify any rules for excluding data from the Baseline Window. Exclusion rules may be based on, but are not limited to the following:
  a) Historical Demand Response Events
  b) Testing/Audit Periods

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: WEQ

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Request No.: 2008 AP Item 5(a)
Review and develop business practice standards to support DR and DSM-EE programs

Proposed Standards approved by the subcommittee on December 2, 2008

c) Calendar data
d) Outages
e) Weather emergencies or force majeure events
f) Usage threshold
g) Known, discrete load additions or reductions that have occurred during the Baseline Window

- **Baseline Adjustments**

  The System Operator shall specify any rules for Baseline Adjustments. Adjustment rules may be based on, but are not limited to the following:
  a) Temperature
  b) Humidity
  c) Calendar data
  d) Sunrise/Sunset time
  e) Event day operating conditions

- **Adjustment Window**

  The System Operator shall specify the Adjustment Window.

015-1.23 EVENT INFORMATION

- **Use of Real-Time Telemetry**

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

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

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

- **Performance Window**

  The System Operator shall specify the Performance Window.

- **Measurement Type**

  During the Performance Window, the Demand Resource shall be evaluated using one of the following measurements unless otherwise specified by the System Operator:
  a) Maximum
  b) Average
  c) Regression

015-1.24 SPECIAL PROCESSING

- **Highly-Variable Load Logic**

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

- **On-Site Generation Requirements**

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: WEQ

December 2, 2008
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Request No.: 2008 AP Item 5(a)
Review and develop business practice standards to support DR and DSM-EE programs

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

Business Practice Requirements

Baseline Type-II (Non-Interval Meter)

015-1.25 BASELINE INFORMATION

- **Baseline Window**

  The System Operator shall specify the Baseline Window.

- **Calculation Type**

  The System Operator shall specify the method of developing the Baseline value using, but not limited to, the following calculation types:
  a) Maximum
  b) Average
  c) Regression

- **Sampling Precision and Accuracy**

  The System Operator shall specify sampling precision and accuracy requirements.

- **Exclusion Rules**

  The System Operator shall specify any rules for excluding data from the Baseline Window. Exclusion rules may be based on, but are not limited to the following:
  a) Historical Demand Response Events
  b) Testing/Audit Periods
  c) Calendar data
  d) Outages
  e) Weather emergencies or force majeure events
  f) Usage threshold
  g) Known, discrete load additions or reductions that have occurred during the Baseline Window

- **Baseline Adjustments**

  The System Operator shall specify any rules for Baseline Adjustments. Adjustment rules may be based on, but are not limited to the following:
  a) Temperature
  b) Humidity
  c) Calendar data
  d) Sunrise/Sunset time
  e) Event day operating conditions

- **Adjustment Window**

  The System Operator shall specify the Adjustment Window.

015-1.26 EVENT INFORMATION

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: WEQ

December 2, 2008
Requesters:DSM-EE Subcommittee
Request No.: 2008 AP Item 5(a)
Review and develop business practice standards to support DR and DSM-EE programs

Proposed Standards approved by the subcommittee on December 2, 2008

- **Use of Real-Time Telemetry**

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

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

  After-the-fact metering or other energy measurement technology shall be used to measure performance, as a supplement to real-time Telemetry unless otherwise specified by the System Operator.

- **Performance Window**

  The System Operator shall specify the Performance Window.

- **Measurement Type**

  During the Performance Window, the Demand Resource shall be evaluated using one of the following measurements unless otherwise specified by the System Operator:
  a) Maximum
  b) Average
  c) Regression

015-1.27 SPECIAL PROCESSING

The System Operator shall specify any special processing rules.

Business Practice Requirements

Metering Generator Output

015-1.28 BASELINE INFORMATION

The System Operator shall specify Baseline calculations for Metering Generator Output.

015-1.29 EVENT INFORMATION

- **Use of Real-Time Telemetry**

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

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

  After-the-fact metering on the generator and optionally on the associated Load shall be used to measure performance unless otherwise specified by the System Operator.

- **Performance Window**

  The System Operator shall specify the Performance Window.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: WEQ

December 2, 2008
Requesters:DSM-EE Subcommittee
Request No.: 2008 AP Item 5(a)
Review and develop business practice standards to support DR and DSM-EE programs

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- **Measurement Type**

  During the Performance Window, the Demand Resource shall be evaluated using the total measured generation output unless otherwise specified by the System Operator.

015-1.30 SPECIAL PROCESSING

The System Operator shall specify any special processing rules.

Business Practices for Measurement and Verification of Demand Response Programs in the Electric Retail Market

Introduction

1. Measurement and Verification

The processes in this document are intended to facilitate measurement and verification of Demand Response programs in the retail electricity markets by providing a common framework for the following:

- Transparency: accessible and understandable M&V requirements for Demand Response programs
- Accountability: criteria that will enable the Program Administrator to accurately measure performance of Demand Response resources; and
- Consistency: a process or protocol that will allow program administrators, regulatory commissions or program participants to agree on the required steps to take to verify demand reductions resulting from demand response programs in retail electricity markets.
-

2. Applicability of Measurement and Verification Standards:

These standards were developed by the DSM/EE subcommittee working group 2 (retail) of NAESB in concert with working group 1 (wholesale – ISO/RTO) and the Demand Response Data Task Force working group of NERC. The development of this framework was accomplished in an open environment where input from all stakeholders was encouraged and welcomed. The standards reflect business practices applicable to measurement and verification in the retail market for Demand Response Programs. This standard will be provided to regulatory commissions as a voluntary standard and can be adopted as necessary to meeting individual jurisdiction requirements for Demand Response Programs. In some areas Program Administrators will be required to follow the standard developed by the RTO working group if the Demand Response Programs operate in one of the wholesale RTO markets. This set of standards is indented to be consistent with the RTO standard but also to acknowledge differences in product and program types between the two markets. The programs covered by this standard include:

Retail Demand Response Program Classfications

Definition of Demand Response (NERC Definition)

> Changes in electric use by demand-side resources from their normal consumption patterns in response to changes in the price of electricity, or to incentive payments designed to induce lower electricity use at times of high wholesale market prices or when system reliability is jeopardized

Definition of Program Administrator

> An investor owned utility, governmental or copperative utility or independent aggregator of demand response programs who has responsibility for developing and operating demand response programs identified in this standard. The Program Administrator shall have regulatory reporting responsibility to the utility regulatory body in the jurisdiction of the retail load and reporting responsibility to NERC.

Demand Response programs can be classified into two major categories, dispatchable and nondispatchable programs:

Dispatchable Programs

Dispactchable programs include programs that require a system operator (RTO system operator or a utility system operator) to declare a load response event that has a specific start time and end time. The measurement and verification process would determine the load reductions over this specified time period. Examples of programs in this classification would be:

Capacity Programs:

- Direct Load Control
- Firm Service Level
- Guarenteed Load Drop
- Critical Peak Pricing

Ancilary Service Programs:

- Spinning Reserve
- Non Spinning Reserve
- Regulation Services

Non Dispatchable Programs

Non Dispatchable programs include programs that have predetermined time periods where consumption patters are expected to change due to price signals or other incentives designed to induce lower electricity consumption, Examples of programs in this calssification would be:

Time Sensitrive Pricing Programs
- Time of use
- Crtical Peak Pricing
- Real Time Pricing

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

Business Practice Conflicts with the wholesale DR standard and NERC Standards:

This standard is designed to provide a framework for measurement and verification of demand respone programs in the retail sector. It was designed in concert with NAESB standards covering demand response programs operating in the wholesale markets. In the event of a conflict between these business practices and business practices developed for the wholesale markets the wholesale makret standard shall have precedence. Additionally, all entities supplying Demand Response Services shall comply with applicable NERC reliability standards.

3. Overview of the Standards

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

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

Performance Evaluation Methodology

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

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

These standards do not specify detailed characteristics of performance evaluation methodologies, but rather provide a framework that may be used to develop performance evaluation methodologies for specific Demand Response services. This approach is believed to be most appropriate at this time as development of performance evalaution methodologies and baseline calculations continues to mature. The following methodology types are applicable to wholesale Demand Response Services: (Rip – We may want to add some specificity here. While perfoprmance methodologies are are maturing there are some reliable methodologies that we nmay want to identify and recommend)

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

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

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

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

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

Applicability of Performance Evaluation Methodology to Program Type

Performance Evaluation Type	Maximum Base Load	Meter Before / Meter After	Baseline Type-I	Baseline Type-II	Mete
Capacity Programs:					
Direct Load Control				X	
Firm Service Level	X				
Guarenteed Load Drop		X			
Critical Peak Pricing			X		
Ancilary Service Programs					
Spinning Reserve					
Non Spinning Reserve		X			
Regulation Services		X			
Time Sensitrive Pricing Programs					
Time of use			X		
Crtical Peak Pricing			X		
Real Time Pricing			X		

Definition of Terms

Dispatchable DEMAND RESPONSE EVENT TERMS

Illustration of Timing of a Demand Response Event

The illustration below represents the terms for timing events and time durations applicable to the charactersitics of a dispatchable Demand Response Event. The definitions of the ten elements in the illustration are the basis for describing the Timing of a Demand Response Event.

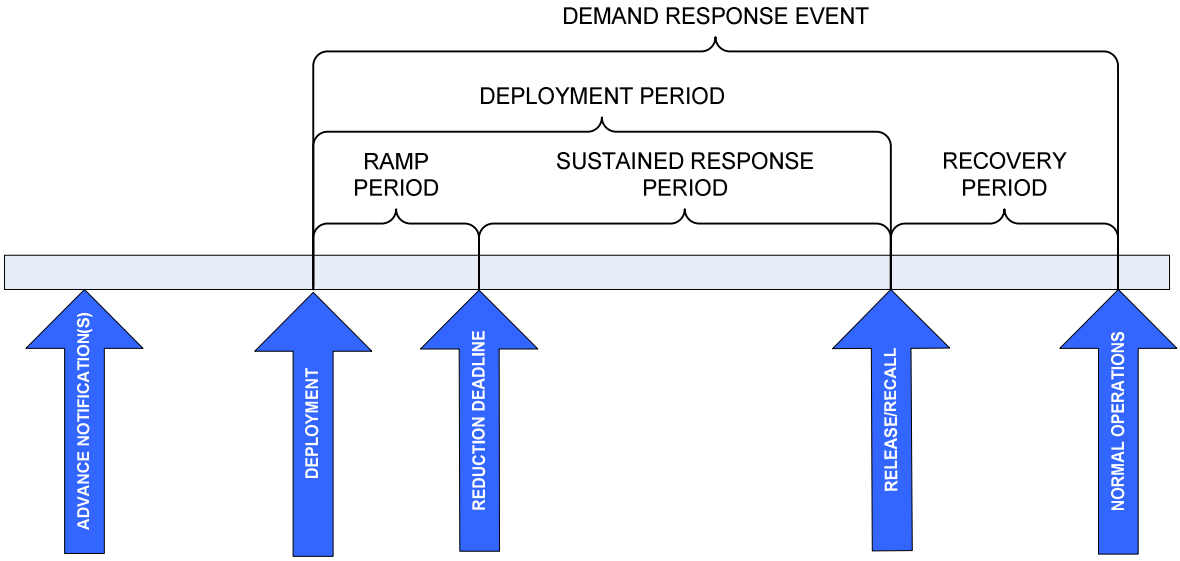

Figure 1. Timing of a Demand Response Event

The following terms refer to the above Figure 1.

Advance Notification(s)

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

Demand Response Event

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

Deployment

The time at which a Demand Resource begins reducing Demand on the system in response to an instruction.

Deployment Period

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

Normal Operations

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

Ramp Period

The time between Deployment and Reduction Deadline, representing the period of time over which a Demand Resource is expected to achieve its change in Demand.

Recovery Period

The time between Release/Recall and Normal Operations, representing the window over which Demand Resources are required to return to their normal Load .

Reduction Deadline

The time at the end of the Ramp Period when a Demand Resource is required to have met its Demand Reduction Value obligation.

Release/Recall

The time when a System Operator or Demand Response Provider notifies a Demand Resource that the Deployment Period has ended or will end.

Sustained Response Period

The time between Reduction Deadline and Release/Recall, representing the window over which a Demand Resource is required to maintain its reduced net consumption of electricity.

Non Dispatcable Demand Respose Terms

(Rip - need to add some verbage describing non dispatchable programs – will work on this later)

GENERAL TERMS

Adjustment Window

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

After-the-Fact Metering

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

Aggregated Demand Resource

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

Baseline

A Baseline is a method of estimating the electricity that would have been consumed by a Demand Resource in the absence of a Demand Response Event. The Baseline is compared to the actual metered electricity consumption during the Demand Response Event to determine the Demand Reduction Value. Depending on the type of Demand Response product or service, Baseline calculations may be performed in real-time or after-the-fact. The Program Administrator may offer multiple Baseline models and may assign a Demand Resource to a model based on the characteristics of the Demand Resource's Load or allow the Demand Resource to choose a performance evaluation model consistent with its load characteristics from a predefined list. Figure 2. below illustrates the concept of Baseline relative to a Demand Response Event.

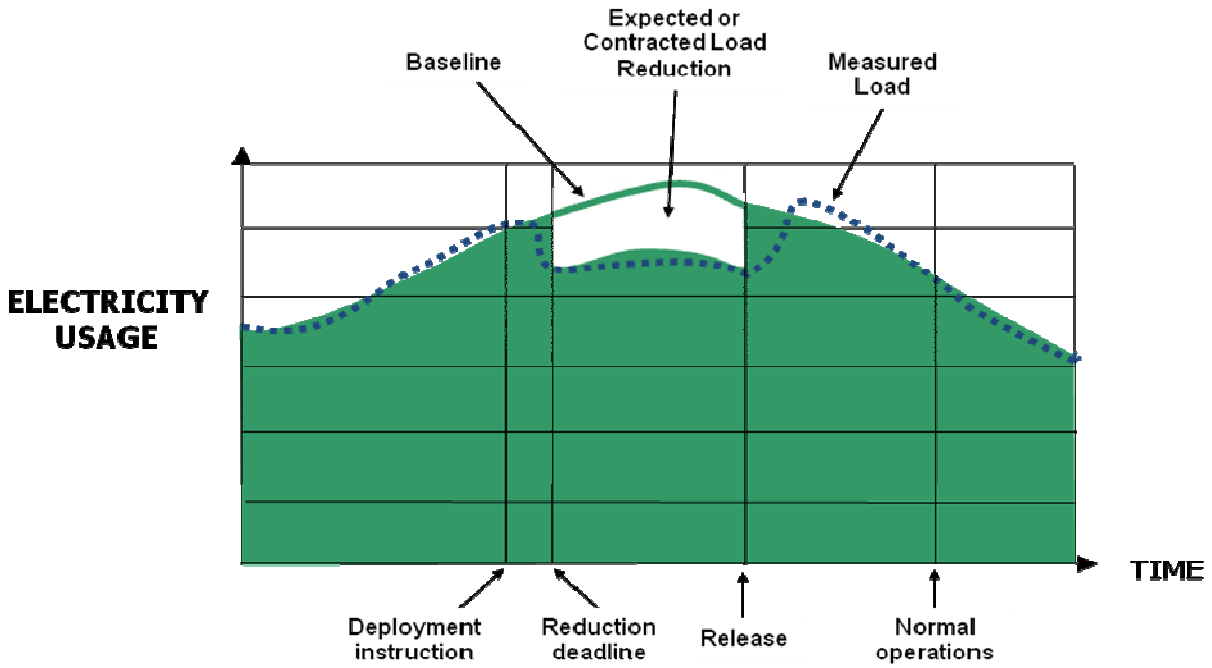

Figure 2. Illustration of Baseline Concept.

Baseline Adjustment

An adjustment that modifies the Baseline to reflect actual conditions immediately prior to or during a Demand Response Event to provide a better estimate of the energy the Demand Resource would

have consumed but for the Demand Response Event. The adjustments may include but are not limited to weather conditions, near real time event facility Load, current Demand Resource operational information, or other parameters based on the System Operator's requirements.

Baseline Type-I (Interval Metered)

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

Baseline Type-II (Non-Interval Metered)

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

Baseline Window

The window of time preceding and optionally following, a Demand Response Event over which the electricity consumption data is collected for the purpose of establishing a Baseline. The applicability of this term is limited to Meter Before/Meter After, and Baseline Type-I and Type-II.

Demand Response Provider

The entity that is responsible for delivering Demand reductions from Demand Resources.

Demand

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

Demand Reduction Value

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

Demand Resource

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

Demand Response

Changes in electric use by demand-side resources from their normal consumption patterns in response to changes in the price of electricity, or to incentive payments designed to induce lower electricity use at times of high wholesale market prices or when system reliability is jeopardized

.

Highly-Variable Load

A Load with a fluctuating or unpredictable electricity consumption pattern.

Load

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

Maximum Base Load

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

Meter Before / Meter After

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

Meter Data Recording Interval

The time between electricity meter consumption recordings.

Meter Data Reporting Deadline

The maximum allowed time from the end of a Demand Response Event (Normal Operations) to the time when meter data is required to be submitted for performance evaluation and settlement. The Meter Data Reporting Deadline may be either relative (a number of hours/days after Normal Operations) or fixed (a fixed calendar time, such as end-of-month).

Metering Generator Output

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

Performance Window

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

Ramp Rate

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

Regulation Service

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

System Operator

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

Telemetry

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

Telemetry Interval

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

Validation, Editing and Estimation

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

Business Practice Requirements:

Provision of Wholesale Electric Demand Response Energy Products

Applicability

The Standard applies to any entity that administers retail Demand Response dispatchable Products.

Purpose

The purpose of this Standard is to ensure that regulatory commissions and participants in retail electric markets in which dispatchable demand response products are administered have access to uniform information that will enable them to report consistent values for measurement and verification of the programs.

015-1.0 GENERAL

- **Advance Notification**

  The Program Administrator shall specify any requirements for the Advance Notification instruction.

- **Deployment Time**

  The Program Administrator shall specify the time at which Demand Resources must begin reducing Demand on the system.

- **Reduction Deadline**

The Program Administrator shall specify the Reduction Deadline.

- **Release/Recall**

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

- **Normal Operations**

  The Program Administrator shall specify Normal Operations.

- **Demand Resource Availability Measurement**

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

  .

- **Aggregation**

  The Program Administrator shall specify any requirements for aggregated Demand.

- **Transparency of Requirements**

  Any specific requirements shall be defined in a System Operator's tariff, market rules, operating procedures, protocols or manuals and shall be posted in a publicly accessible location. (Rip – Not sure this is needed)

015-1.1 TELEMETRY

- **Telemetry Requirement**

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

- **On-Site Generation Telemetry**

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

- **Telemetry Accuracy**

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

- **Telemetry Interval**

  The Program Administrator shall specify the Telemetry Interval at a value not to exceed 5 minutes.

- **Other Telemetry Measurements**

The Program Administrator Operator shall specify any additional Telemetry data requirements.

- **Communication Protocol**

  The Program Administrator shall specify the Telemetry communication protocol.

- **Governor Control Equivalent**

  Not applicable .

015-1.2 AFTER-THE-FACT METERING

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

  After-the-Fact Metering is required unless otherwise specified by the Program Administrator.

- **Meter Accuracy**

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

- **Details of Meter/Equipment Standards**

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

- **Meter Data Reporting Deadline**

  The Program administrator shall specify the Meter Data Reporting Deadline.

- **Meter Data Reporting Interval**

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

- **Clock / Time Accuracy**

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

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

  The Program Administrator shall specify VEE requirements.

- **On-Site Generation Meter Requirement**

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

015-1.3 PERFORMANCE EVALUATION

- **Rules for Performance Evaluation**

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

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

Business Practice Requirements

Maximum Base Load Evaluation

015-1.4 BASELINE INFORMATION

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

015-1.5 EVENT INFORMATION

- **Use of Real-Time Telemetry**

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

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

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

- **Performance Window**

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

- **Measurement Type**

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

  a) Peak Demand
  b) Average Demand

015-1.6 SPECIAL PROCESSING

The Program Administrator shall specify any special processing rules.

Business Practice Requirements

Meter Before / Meter After

015-1.7 BASELINE INFORMATION

- **Baseline Window**

  The Program Administrator shall specify the Baseline Window.

- **Calculation Type**

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

a) Instantaneous
b) Maximum
c) Average

- **Sampling Precision and Accuracy**

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

- **Exclusion Rules**

  The Program Administrator shall specify any exclusion rules.

- **Baseline Adjustments**

  The Program Administrator shall specify any event-day adjustments.

- **Adjustment Window**

  No Adjustment Window is used for this model unless otherwise specified by the Program Administrator.

015-1.8 EVENT INFORMATION

- **Use of real-time Telemetry**

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

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

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

- **Performance Window**

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

- **Measurement Type**

  During the Performance Window, the Demand Resource shall be evaluated using one of the following measurements unless otherwise specified by the Program Administrator:
  a) Instantaneous
  b) Maximum
  c) Average

015-1.9 SPECIAL PROCESSING

- **Highly-Variable Load Logic**

  The Program Administrator shall specify any performance evaluation requirements for Highly-Variable Loads.

- **On-Site Generation Requirements**

  The Program Administrator shall specify any performance evaluation requirements for on-site generation.

Business Practice Requirements

Baseline Type-I (Interval Meter)

015-1.10 BASELINE INFORMATION

- **Baseline Window**

  The Program Administrator shall specify the Baseline Window.

- **Calculation Type**

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

  a) Maximum
  b) Average
  c) Regression

- **Sampling Precision and Accuracy**

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

- **Exclusion Rules**

  The Program Administrator shall specify any rules for excluding data from the Baseline Window. Exclusion rules may be based on, but are not limited to the following:

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

- **Baseline Adjustments**

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

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

- **Adjustment Window**

The Program Administrator shall specify the Adjustment Window.

015-1.11 EVENT INFORMATION

- **Use of Real-Time Telemetry**

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

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

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

- **Performance Window**

  The Program Administrator shall specify the Performance Window.

- **Measurement Type**

  During the Performance Window, the Demand Resource shall be evaluated using one of the following measurements unless otherwise specified by the Program Administrator:
  a) Maximum
  b) Average
  c) Regression

015-1.12 SPECIAL PROCESSING

- **Highly-Variable Load Logic**

  The Program Administrator may specify performance evaluation requirements for Highly-Variable Loads.

- **On-Site Generation Requirements**

  The Program Administrator may specify performance evaluation requirements for on-site generation.

Business Practice Requirements

Baseline Type-II (Non-Interval Meter)

015-1.13 BASELINE INFORMATION

- **Baseline Window**

  The Program Administrator shall specify the Baseline Window.

- **Calculation Type**

  The Program Administrator shall specify the method of developing the Baseline value using, but not limited to, the following calculation types:
  a) Maximum
  b) Average
  c) Regression

- **Sampling Precision and Accuracy**

  The Program Administrator shall specify sampling precision and accuracy requirements.

- **Exclusion Rules**

  The Program Administrator shall specify any rules for excluding data from the Baseline Window. Exclusion rules may be based on, but are not limited to the following:

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

- **Baseline Adjustments**

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

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

- **Adjustment Window**

  The Program Administrator shall specify the Adjustment Window.

015-1.14 EVENT INFORMATION

- **Use of Real-Time Telemetry**

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

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

  After-the-fact metering or other energy measurement technology shall be used to measure performance, as a supplement to real-time Telemetry unless otherwise specified by the Program Administrator.

- **Performance Window**

  The Program Administrator shall specify the Performance Window.

- **Measurement Type**

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

  a) Maximum
  b) Average
  c) Regression

015-1.15 SPECIAL PROCESSING

The Program Administrator shall specify any special processing rules.

Business Practice Requirements

Metering Generator Output

015-1.16 BASELINE INFORMATION

The Program Administrator shall specify Baseline calculations for Metering Generator Output.

015-1.17 EVENT INFORMATION

- **Use of Real-Time Telemetry**

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

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

  After-the-fact metering on the generator and optionally on the associated Load shall be used to measure performance unless otherwise specified by the Program Administrator.

- **Performance Window**

  The Program Administrator shall specify the Performance Window.

- **Measurement Type**

  During the Performance Window, the Demand Resource shall be evaluated using the total measured generation output unless otherwise specified by the Program Administrator.

015-1.18 SPECIAL PROCESSING

The Program Administrator shall specify any special processing rules.

North American Energy Standards Board

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

January 21, 2009

TO: NAESB Retail Gas and Electric Quadrant Members and Interested Industry Participants

FROM: Rae McQuade

RE: 2009 Annual Plan for the Retail Quadrants

Dear Retail Quadrants EC Members and posting for Interested Parties,

The Retail Gas and Electric Executive Committees met on January 21 and voted unanimously to support the attached 2009 annual plan. The Retail ECs will have another opportunity to modify this plan on February 4 before it is forwarded to the Board for its consideration and approval. Please keep in mind that the Board Retail Structure Review Committee is considering changes to better position the two quadrants to address retail market needs, which may also contribute additional changes not reflected in this plan.

Many thanks go to all who contributed to this document. We look forward to hearing from you on February 4 at the upcoming Retail ECs meeting. Should you have any questions or need additional information, do not hesitate to contact the NAESB office at 713-356-0060 or vthomason@naesb.org.

Best Regards,

Rae

Rae McQuade
President, NAESB

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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 ANNUAL PLAN for the RETAIL GAS and ELECTRIC QUADRANTS
Adopted by the NAESB Retail Executive Committees on January 21, 2009

	Item Number & Description[i]	Completion[ii]	Assignment[iii]
1	Electronic Retail Billing.		
	Develop Technical Electronic Implementation Standards – Electronic Retail Billing, (R05016 and Attachment, submitted by Wal-Mart/J.C. Penney) Status: Underway	2nd Q, 2009	TEIS
2	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
3	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
4	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	2008	Joint WEQ/REQ DSM Subcommittee
	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	WEQ Section of the Joint WEQ/REQ DSM Subcommittee
	b. Develop matrix and business practice standards for measurement and verification for demand response programs in non-ISO/RTO footprint areas. Status: On hold	TBD	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 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	Phase 2*	WEQ Section of the Joint WEQ/REQ

* These items may be moved to Provisional Activities

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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 ANNUAL PLAN for the RETAIL GAS and ELECTRIC QUADRANTS
Adopted by the NAESB Retail Executive Committees on January 21, 2009

	Item Number & Description[i]	Completion[ii]	Assignment[iii]
	energy efficiency or a stand-alone Energy Efficiency Portfolio Standard. Status: Not Started		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	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	Phase 2*	Joint WEQ/REQ DSM Subcommittee
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), (R08015). Status: Underway	1st Q, 2009	Joint Retail/WGQ Contracts
6	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
7.	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
8.	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

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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 ANNUAL PLAN for the RETAIL GAS and ELECTRIC QUADRANTS
Adopted by the NAESB Retail Executive Committees on January 21, 2009

	Item Number & Description[i]	Completion[ii]	Assignment[iii]
9	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
10	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

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.

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Item Number & Description[i]	Completion[ii]	Assignment[iii]

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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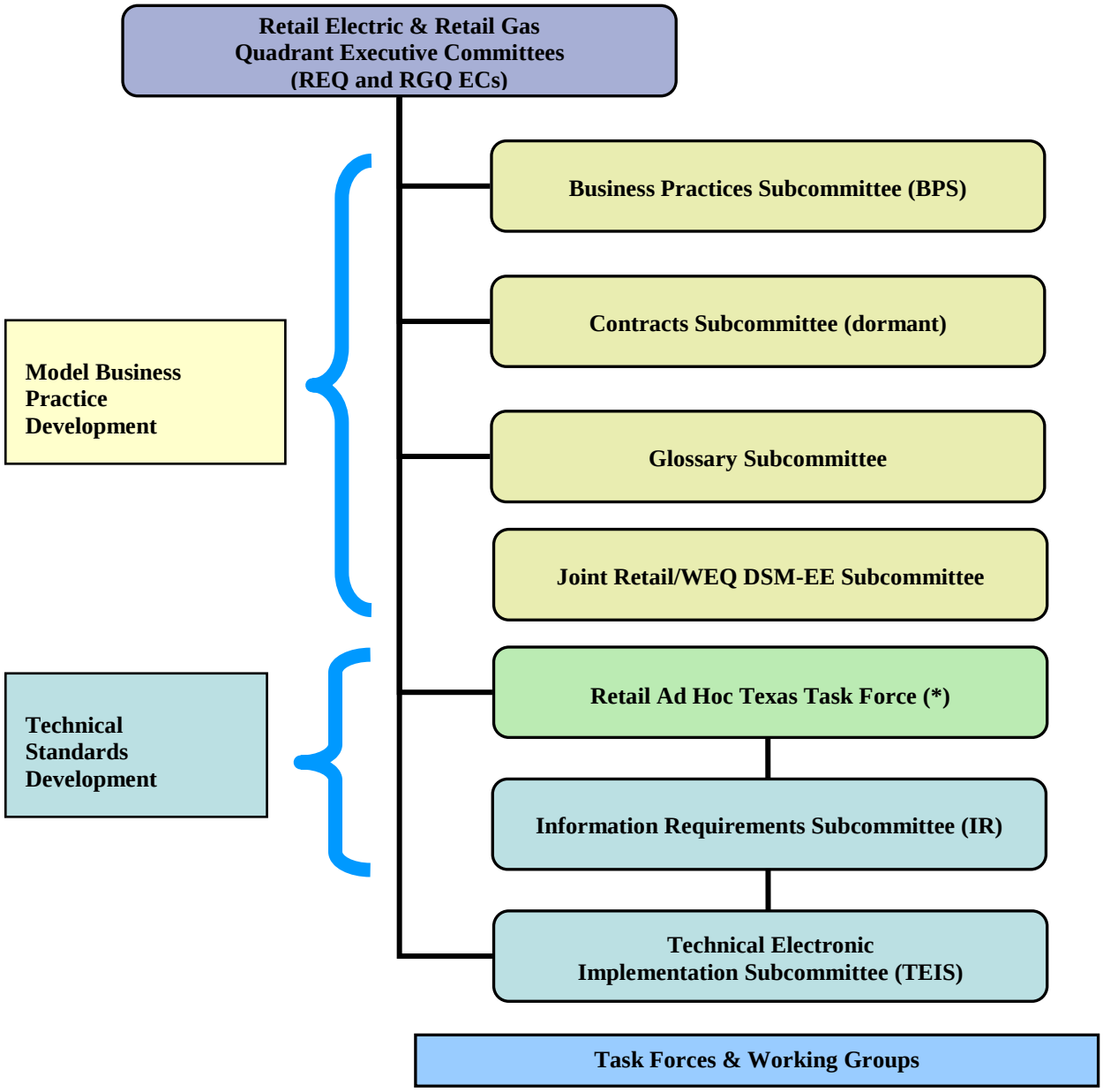

NAESB Retail Subcommittee Leadership: [v]

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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January 27, 2009

TO: NAESB Board Members, Posting for Interested Industry Participants

FROM: Deonne Cunningham, Meeting Administrator / Project Manager

RE: Draft Minutes from the NAESB Board of Directors Meeting – December 18, 2008

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

1. Administration and Welcome

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

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

2. Membership and Financial Report

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

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

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

3. Reports from Board Committees

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

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

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

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

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

4. Updates on specific efforts

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

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

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

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

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

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

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

5. Executive Committee Reports

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

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

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

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

6. Plan for March 2009 Board Meeting

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

7. Old and New

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

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

8. Adjourn

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

9. Board Attendance and Voting Record (Vacancies Omitted)

		ATTENDANCE
WGQ PRODUCERS SEGMENT		
Jay Ellzey	Vice President Commercial Operations, Chevron Natural Gas	
William T. Benham	Vice President – Regulatory Affairs, BP Energy Company	
Keith Sappenfield	Regional Director – US Regulatory Affairs, EnCana Oil & Gas (USA) Inc.	In Person
Marty Patterson	Vice President – Commercial Operations, Foothills Energy Ventures LLC	
Pete Frost	Director - Regulatory Affairs, ConocoPhillips Gas and Power Marketing	
WGQ PIPELINE SEGMENT		
Cathie Legge	Manager – Customer Service, Alliance Pipeline LP	In Person
Bill Grygar	Vice President, Panhandle Eastern Pipe Line	In Person
Susanna B. Barry	Vice President – Commercial Operations, Tennessee Gas Pipeline Company	In Person
Anne Bomar	Vice President, Dominion	In Person
Richard Kruse	Senior Vice President, Spectra Energy Transmission	In Person
WGQ LOCAL DISTRIBUTION COMPANY (LDC) SEGMENT		
Clifton Olson	Vice President of Supply and Transmission, Energy East Corporation	On Phone
Adrian Chapman	Vice President, Regulatory Affairs & Energy Acquisition, Washington Gas	In Person
Carlos Thillet	Manager, Gas Supply & Transportation, PECO Energy Co.	On Phone
Mike Novak	Asst. General Manager, National Fuel Gas Distribution Corporation	
Lee Stewart	Senior Vice President, Gas Transmission, Southern California Gas Company	On Phone
WGQ END USERS SEGMENT		
Valerie Crockett	Senior Energy & Policy Specialist, Tennessee Valley Authority	In Person
Timothy W. Gerrish	Director of Origination-Energy Marketing and Trading, Florida Power & Light	
Tina Burnett	Natural Gas Resources Administrator, The Boeing Co.	
Lori-Lynn C. Pennock	Senior Fuel Supply Analyst, Salt River Project	In Person
Jim Templeton	Principal, Comprehensive Energy Services	In Person

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

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			ATTENDANCE
WEQ DISTRIBUTION/LOAD SERVING ENTITIES (LSE) SEGMENT			
Arthur G. Fusco	Vice President and General Counsel, Central Electric Power Cooperative Inc.	Muni/Coop	In Person
Barry R. Lawson	Manager-Power Delivery, National Rural Electric Cooperative Association	Muni/Coop	In Person
Frank Johnson	Senior Vice President Electric Transmission and Distribution, Consumers Energy	IOU	
Thomas Burgess	Director – FERC Compliance, FirstEnergy Service Company	at large	In Person
Joe Hartsoe	Managing Director – Federal Policy, American Electric Power Service Corp.	at large	On Phone
Bruce Ellsworth	New York State Reliability Council	At-Large	In Person
WEQ END USERS SEGMENT			
Thomas G. Dvorsky	Director of the Office of Electricity, Gas, and Water at the New York State Department of Public Service	Regulator	
Michehl Gent	Open Access Technology International, Inc.	At-Large	In Person
WEQ INDEPENDENT GRID OPERATORS/PLANNERS			
Michael Desselle	Vice President Process Integrity, Southwest Power Pool		On Phone
Kent Saathoff	Vice President of System Operations, ERCOT		
Kevin Kirby	Vice President Market Operations, ISO New England, Inc.		On Phone
Rana Mukerji	Vice President Market Structures, New York Independent System Operator, Inc. (NYISO)		
Andy Ott	Senior Vice President Marketing, PJM Interconnection		On Phone
Bill Phillips	Vice President Standards Compliance & Strategy, Midwest ISO (MISO)		On Phone
Don Tench	Director Planning & Assessments, Independent Electricity System Operator (IESO)		
RGQ DISTRIBUTORS SEGMENT			
Alonzo Weaver	Vice President of Engineering and Operations, Memphis Light, Gas & Water Division (APGA)		In Person
Ralph Cleveland	Senior Vice President – Engineering and Operations, AGL Resources, Inc.		In Person
SERVICE PROVIDERS SEGMENT			
Leigh Spangler	President, Latitude Technologies Inc.		In Person
Dave Darnell	President & CEO, Systrends USA		
Greg Lander	President, Capacity Center		

The subsegments noted in the above roster are:

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

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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10. Other Attendance

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

North American Energy Standards Board

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January 22, 2009

TO: NAESB Wholesale Gas Quadrant EC Members and Interested Industry Participants

FROM: Rae McQuade

RE: 2009 Annual Plan for the Wholesale Gas Quadrant

Dear Wholesale Gas Quadrant EC Members and Interested Parties,

The Wholesale Gas Quadrant Executive Committee met on January 22 and voted unanimously to support the attached 2009 annual plan. The WGQ EC will have another opportunity to modify this plan on February 5 before it is forwarded to the Board for its consideration and approval.

Many thanks go to all who contributed to this document. We look forward to hearing from you on February 5 at the upcoming WGQ EC meeting. Should you have any questions or need additional information, do not hesitate to contact the NAESB office at 713-356-0060 or vthomason@naesb.org.

Best Regards,

Rae

Rae McQuade
President, NAESB

North American Energy Standards Board

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NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WGQ Annual Plan Adopted by the NAESB WGQ EC on January 22, 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	1st Q, 2009	Joint Retail/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: Underway (This item is being developed in conjunction with Items 4.a and 4.b)	2nd Q, 2009	BPS, IR/Technical
b. Provide for Enhanced Granularity for Public Utilities in Identifying Critical Operational Flow Orders. (R08020) Status: Not Started (Completion Date to be determined on February 5, 2009)	TBD	BPS jointly with WEQ BPS
4. Promotion of a More Efficient Capacity Release Market		
Review FERC Order Nos. 712 and 712A and modify NAESB standards as appropriate (Docket Nos. RM08-1-000, RM08-1-001).		
a. Develop business practice standards as appropriate Status: Underway (This item is being developed in conjunction with Item 3.a.i)	2nd Q, 2009	BPS/Interpretations
b. Prepare fully staffed recommendation Status: Underway (This item is being developed in conjunction with Item 3.a.i)	2nd Q, 2009	BPS, Interpretations, IR and Technical

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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 WGQ Annual Plan Adopted by the NAESB WGQ EC on January 22, 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 Adopted by the NAESB WGQ EC on January 22, 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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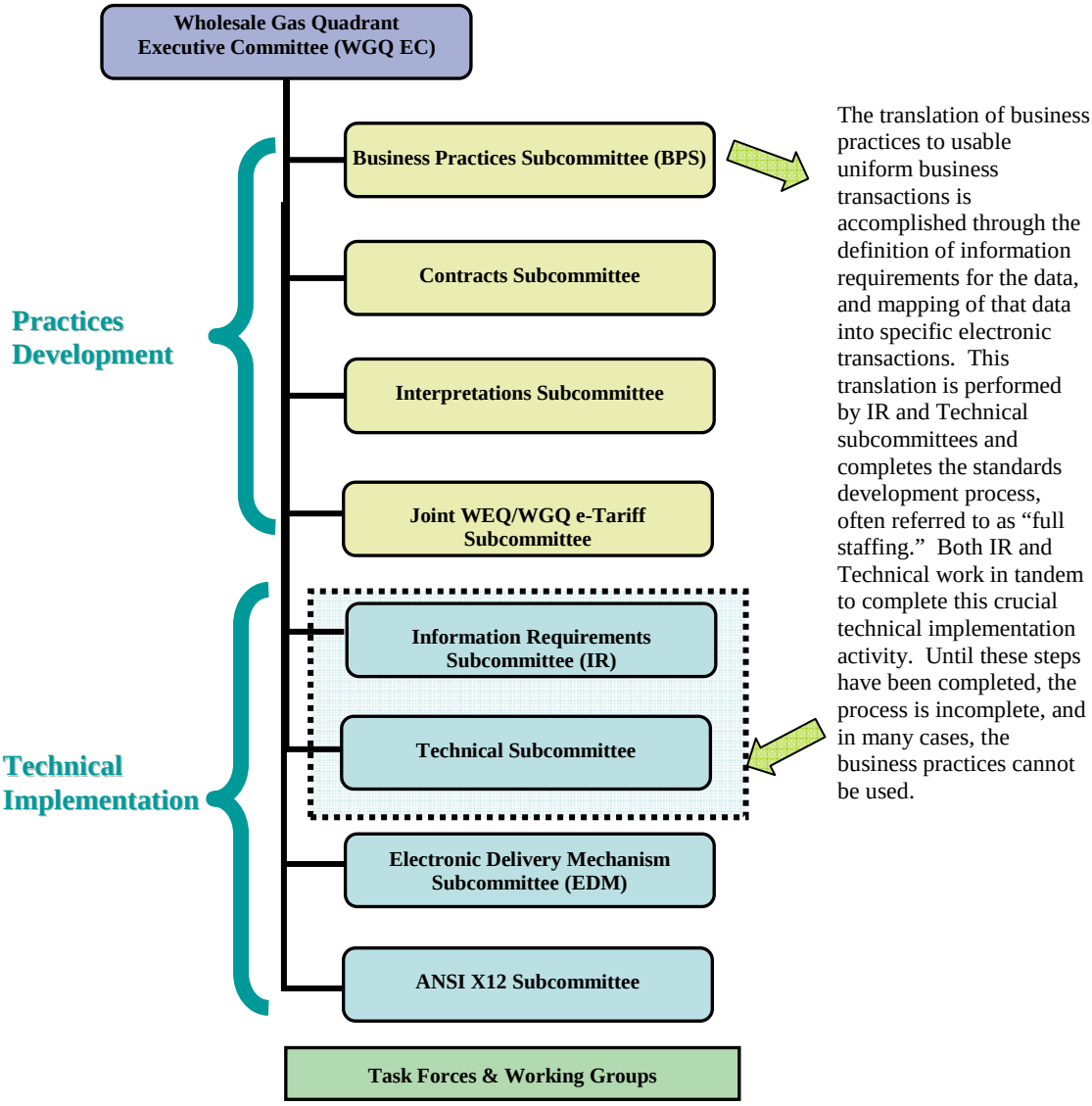

The translation of business practices to usable uniform business transactions is accomplished through the definition of information requirements for the data, and mapping of that data into specific electronic transactions. This translation is performed by IR and Technical subcommittees and completes 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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January 23, 2009

TO: NAESB Wholesale Electric Quadrant EC Members and Interested Industry Participants

FROM: Rae McQuade

RE: 2009 Annual Plan for the Wholesale Electric Quadrant

Dear Wholesale Electric Quadrant EC Members and Interested Parties,

The Wholesale Electric Quadrant Executive Committee met on January 23 and voted unanimously to support the attached 2009 annual plan. The WEQ EC will have another opportunity to modify this plan on February 3 before it is forwarded to the Board for its consideration and approval.

Many thanks go to all who contributed to this document. We look forward to hearing from you on February 3 at the upcoming WEQ EC meeting. Should you have any questions or need additional information, do not hesitate to contact the NAESB office at 713-356-0060 or vthomason@naesb.org.

Best Regards,

Rae

Rae McQuade
President, NAESB

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NORTH AMERICAN ENERGY STANDARDS BOARD
2009 WEQ Annual Plan Approved by the WEQ EC on January 23, 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)	2009	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)	2009	BPS
f)	Develop complementary standards that align with NERC Project 2008-01 Voltage and Reactive Control Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2009	BPS

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NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WEQ Annual Plan Approved by the WEQ EC on January 23, 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		
ii)	Group 4: Pre-Emption; Request No. R05019; and Revisions to Standard 9.7		

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2009 WEQ Annual Plan Approved by the WEQ EC on January 23, 2009

Item Description	Completion[1]	Assignment[2]
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	1st Q, 2009	EC Task Force, 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
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:		

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2009 WEQ Annual Plan Approved by the WEQ EC on January 23, 2009

	Item Description	Completion[1]	Assignment[2]
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	2nd Q, 2009	BPS
	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: Underway	1st Q, 2009	JISWG

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NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WEQ Annual Plan Approved by the WEQ EC on January 23, 2009

		Item Description	Completion[1]	Assignment[2]
	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	4th 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 PKI Standards for e-tagging (Develop Implementation Plan). Status: Underway (upon further development of this item by NAESB, a completion date will be determined) eTagging items are linked to the transition of the Registry from NERC to NAESB.	2nd Q, 2009	JISWG
c)		Develop needed business practice standards for organization/company codes for NAESB standards – and address current issues on the use of DUNs numbers. Status: Underway (upon further development of this item by NAESB, a completion date will be determined) Common code usage is linked to the transition of the Registry from NERC to NAESB	2009	NAESB Staff with WEQ support
d)		Develop business practice standards in support of FERC Order No. 717 Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2009	BPS

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NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WEQ Annual Plan Approved by the WEQ EC on January 23, 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 programs 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 preamble for business practice standards for measurement and verification for demand response and energy efficiency programs. Status: Underway	2nd Q, 2009	Joint WEQ/Retail DSM-EE Subcommittee
c)	Develop glossary for business practice standards Status: Underway	2nd Q, 2009	Joint WEQ/Retail DSM-EE Subcommittee
d)	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/Retail DSM-EE Subcommittee
e)	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/Retail DSM-EE Subcommittee
f)	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/Retail DSM-EE Subcommittee
g)	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/Retail DSM-EE Subcommittee

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NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WEQ Annual Plan Approved by the WEQ EC on January 23, 2009

	Item Description	Completion[1]	Assignment[2]
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
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)

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NORTH AMERICAN ENERGY STANDARDS BOARD

2009 WEQ Annual Plan Approved by the WEQ EC on January 23, 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).

North American Energy Standards Board
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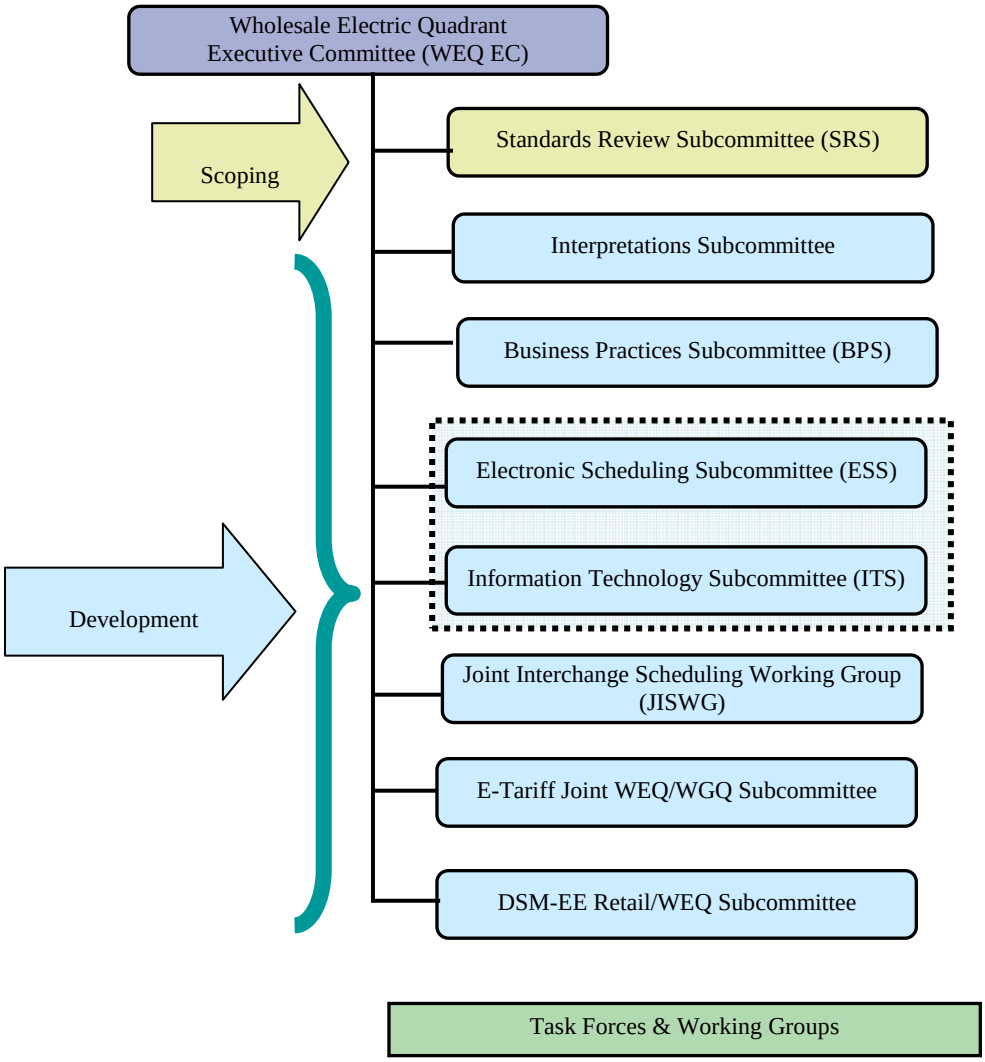

NAESB WEQ EC and Subcommittee Leadership:
Executive Committee: Kathy York (WEQ EC Chair) and TBA (WEQ EC Vice Chair)
Standards Review Subcommittee: Narinder Saini, Ed Skiba
Interpretations Subcommittee: Robert Schwermann
Business Practices Subcommittee & Task Forces: Jim Busbin (TLR), Ed Skiba
Electronic 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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NAESB Retail Structure Review Committee

At the request of the NAESB Board of Directors, the Retail Structure Review Committee met on December 10, 2008 to discuss the future of the Retail Quadrants. During this meeting, the participants discussed five potential solutions to the membership issues faced by both the Retail Gas and Retail Electric Quadrants. These solutions included: (1) merging the Retail Gas and Retail Electric Quadrants, (2) merging the Retail Quadrants and the Wholesale Quadrants, (3) indefinitely discontinuing the work of the Retail Quadrants or significantly restricting the work that will be undertaken by the Retail Quadrants, (4) dissolving the Retail Quadrants, or (5) continuing the existing structure for 2009-2010. The following resulted from that meeting:

Goals
The participants determined that the course of action pursued by the Organization should not conflict with the following overarching goals:

(1) The course of action should not negatively affect the overall membership of NAESB.

(2) The course of action should not negatively affect the current financial standing of the Organization.

(3) The course of action should increase the credibility of the membership and representation of the retail market.

(4) The course of action should strengthen the leadership of the organization and address the number of vacant Board and Executive Committee seats in both the Retail Gas and Retail Electric Quadrants.

Solutions
The participants reviewed the five courses of action outlined above and discussed how those courses of action relate to the overarching goals established by the participants.

Merging the Retail Gas and Retail Electric Quadrants: Based upon the current membership, if the Retail Quadrants merged, the combined membership of the two Quadrants would not satisfy the minimum requirements for a Quadrant established in the NAESB By-Laws. Also, it would become unnecessary for companies that currently hold memberships in both Quadrants to continue with multiple memberships. This would result in a reduction to the overall membership while not achieving the minimum membership goal in the By-Laws.

Merging the Retail Quadrants and the Wholesale Quadrants: The interests of the Wholesale Quadrants and Retail Quadrants are very different. As a result, members, whose interests lie within the Retail market or Wholesale market, would have to spend a significant amount of time addressing issues which are not applicable to their interests. This would diminish the value of membership within NAESB and damage the credibility of the Organization, as standards would be evaluated by members of unaffected markets.

Indefinitely discontinuing the work of the Retail Quadrants or significantly restricting the work that will be undertaken by the Retail Quadrants: This course of action would be appropriate if there is no further work of value to industry to be done by the Quadrants. The Retail industry's focus on business practice standards has shifted from those relating to customer choice and competition to those concerning DSM/EE programs. As such, the Retail Quadrants role in facilitating that standards development is significant and should not be discontinued or limited.

Dissolving the Retail Quadrants: See above

Continuing the existing structure for 2009-2010: The membership issues faced by the Retail Quadrants have been unresolved for several years. Given the condition of the current market and the Quadrant's potential for growth, it is in the Organizations best interest to take action to address the Quadrants issues and develop a sustainable structure within the Organization.

Suggested Course of Action
The Retail Structure Review Committee recommends that the Retail Quadrants focus development work on the emerging areas of energy efficiency and demand side management. As a result the current segment structure should

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be modified. The current segment structure of the Quadrants was appropriate for development of model business practices for customer choice and competition but is no longer appropriate given the shifting focus of the Quadrants' work.. The Quadrants could be restructured so that current members, including those holding Retail Board and Executive Committee seats, would be minimally affected, and more accurately represent the current Retail market activities. This course of action would satisfy the goals established by the Retail Structure Review Committee and lead to the sustainability of the Retail Quadrants.