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

NAESB WHOLESALE ELECTRIC QUADRANT EXECUTIVE COMMITTEE MEETING

ASSEMBLED MEETING MATERIALS

AUGUST 17, 2010

North American Energy Standards Board

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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING
WHOLESALE ELECTRIC QUADRANT

Tuesday, August 17, 2010 – 10:00 am to 4:00 pm MT
El Paso Western Pipeline Offices, 2 North Nevada Avenue, Colorado Springs, CO

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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING
WHOLESALE ELECTRIC QUADRANT

Tuesday, August 17, 2010 – 10:00 am to 4:00 pm MT
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Attire – Business Casual

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NAESB ANTITRUST GUIDELINES STATEMENT

ANTITRUST GUIDELINES

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

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

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

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

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2010 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	12-31-2011
Richard D. Smith	Regulatory & Compliance Manager, Noble Energy, Inc.	12-31-2011
Mike Shepard	General Counsel, Mewbourne Oil Company	12-31-2011
PIPELINE SEGMENT		
Bill Griffith	Consultant, El Paso Natural Gas Company	12-31-2011
Kathryn Burch	Project Manager - Standards and Regulatory, Spectra Energy Transmission	12-31-2011
Dale Davis	Consultant, Williams Gas Pipeline	12-31-2010
Randy Young	Vice President - Regulatory Compliance and Corporate Services, Boardwalk Pipeline Partners, LP	12-31-2012
Kim Van Pelt	Regulatory Compliance Manager, Panhandle Eastern Pipe Line	12-31-2012
LOCAL DISTRIBUTION COMPANY (LDC) SEGMENT		
Rodger Schwecke	Director – Energy Markets and Capacity Products, Sempra Energy - Southern California Gas	12-31-2011
Phil Precht	Management Consultant – Pricing & Regulatory Services Department, Baltimore Gas and Electric Company	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	12-31-2012
Craig Colombo	Energy Trader III, Dominion Resources	12-31-2012
END USERS SEGMENT		
Norm Spooner	Supply Chain Manager – Fuel & Term Trading Department, Arizona Public Service Company	12-31-2010
Valerie Crockett	Senior Program Manager - Energy Markets & Policy, Tennessee Valley Authority	12-31-2010
Lori-Lynn C. Pennock	Senior Fuel Supply Analyst, Salt River Project	12-31-2011
V A C A N C Y		12-31-2011
Tina Burnett	Natural Gas Operations Administrator, The Boeing Company	12-31-2011
SERVICES SEGMENT		
V A C A N C Y		12-31-2010
Lisa Simpkins	Vice President, Energy Policy – Natural Gas, Constellation Energy Commodities Group	12-31-2010
Leigh Spangler	CEO, Latitude Technologies, Inc.	12-31-2011
Jim Buccigross	Vice President, 8760 Inc.	12-31-2011
Jeff Jarvis	Senior Counsel, EnCana Marketing (USA), Inc.	12-31-2011

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

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2010 EXECUTIVE COMMITTEE TERMS – Retail Electric Quadrant

SERVICE PROVIDERS/SUPPLIERS SEGMENT		**TERM END:**
Bill Barkas	Manager of Retail State Government Relations, Dominion Retail, Inc.	12-31-2011
Jim Minneman	Controller, PPL Solutions, LLC	12-31-2011
Jennifer Teel	Vice President of Client Services, ista	12-31-2010
Susan Munson	ERCOT Retail Market Liaison, Electric Reliability Council of Texas (ERCOT)	12-31-2010
UTILITIES SEGMENT		
Phil Precht	Management Consultant - Pricing and Regulatory Services Department, Baltimore Gas & Electric Company	12-31-2011
Patrick Eynon	Supervisor – Retail Access, Ameren Services	12-31-2011
Judy Ray	Industrial Segment Manager – Contract Administrator, Alabama Power Company	12-31-2010
Michael J. Jesensky	Director – Demand –Side Analysis, Dominion Resources Services, Inc. (representing Dominion Virginia Power)	12-31-2010
END USERS/PUBLIC AGENCIES SEGMENT		
V A C A N C Y		12-31-2011
V A C A N C Y		12-31-2011
Annunciata E. Marino	Utility Energy Policy and Technology Analyst, Pennsylvania Public Utility Commission	12-31-2010
Christopher Kotting	Administrator – Energy Assurance, Public Utility Commission of Ohio	12-31-2010

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2010 EXECUTIVE COMMITTEE TERMS – Wholesale Electric Quadrant

TRANSMISSION SEGMENT		**TERM END:**	**SUBSEGMENT:**
Patrick McGovern	Manager - System Services, Georgia Transmission Corporation	12-31-20011	Muni/Coop
Luke O'Dwyer	Senior Engineer, 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.	12-31-2011	IOU
Marceline Otondo	Regulatory Compliance Advisory, Arizona Public Service Company	12-31-2010	at large
Bob Harshbarger	OASIS Trading Manager, Puget Sound Energy	12-31-2011	at large
Michelle Mizumori	Director of Market – Operations Interface, Western Electricity Coordinating Council (WECC)	12-31-2011	At-Large
GENERATION SEGMENT			
William J. Gallagher	Special Contracts Chief, Vermont Public Power Supply Authority	12-31-2011	Muni/Coop
Kathy York	Sr. Energy Markets & Policy Specialist, Tennessee Valley Authority	12-31-2010	Fed/State/Prov.
V A C A N C Y		12-31-2010	IOU
John Ciza	Project Manager Energy Policy and Regulatory Affairs, Southern Company Services	12-31-2011	IOU
Alan Johnson	Director Regulatory Compliance – Commercial Operations & Commodities, NRG Energy, Inc.	12-31-2010	Merchant
Trent Carlson	Vice President – Regulatory Affairs, RRI Energy Services, Inc.	12-31-2011	at large
Shah Hossain	Senior Regulatory Specialist, Westar Energy, Inc.	12-31-2011	at large
MARKETERS/BROKERS SEGMENT			
Chris Norton	Director of Market Regulatory Affairs, American Municipal Power, Inc.	12-31-2010	Muni/Coop
Belinda Thornton	General Manager - Energy Origination, Tennessee Valley Authority	12-31-2011	Fed/State/Prov.
V A C A N C Y		12-31-2010	at large
Richard Lehman	Supply and Trading, Salt River Project	12-31-2011	at large
John Apperson	Director – Commercial and Trading, PacifiCorp Energy	12-31-2010	IOU
Roy True	Manager of Regulatory and Market Affairs, ACES Power Marketing	12-31-2011	at large
Barry Green	Barry Green Consulting (representing Electric Power Supply Association (EPSA))	12-31-2011	at large

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DISTRIBUTION/LOAD SERVING ENTITIES (LSE) SEGMENT		TERM END:	SUBSEGMENT:
Ray Phillips	Manager of Compliance and Special Projects, Alabama Municipal Electric Authority	12-31-2010	Muni/Coop
V A C A N C Y		12-31-2011	at large
Alan Pritchard	Senior Engineer, Duke Energy Corporation	12-31-2010	IOU
Rufus D. Gladney	Executive Manager of Energy Services West, Consumers Energy Company	12-31-2011	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	12-31-2011	Other
Andy Rodriquez	Manager of Business Practice Coordination, NERC	12-31-2011	At-Large
END USERS SEGMENT			
V A C A N C Y		12-31-2011	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		12-31-2011	at large
Christopher Kotting	Administrator – Energy Assurance, Public Utility Commission of Ohio	12-31-2010	at large
V A C A N C Y		12-31-2011	at large
Paul Sorenson	Vice President - Central Markets Strategy, Open Access Technology International, Inc.	12-31-2011	At-Large
INDEPENDENT GRID OPERATORS/PLANNERS			
Thomas Bowe	Executive Director – Reliability Integration, PJM Interconnection, LLC	12-31-2010	
Jim Castle	Manager - Grid Operations, New York Independent System Operator, Inc.	12-31-2010	
Matt Goldberg	Director Reliability & Operations Compliance ISO New England, Inc.	12-31-2010	
Nancy Traweek	Director – Market Services, California ISO	12-31-2010	
Joel Mickey	Director of Grid Operations, Electric Reliability Council of Texas	12-31-2011	
Ed Skiba	Consulting Advisor, Standards Compliance & Strategy, Midwest ISO	12-31-2011	
Charles Yeung	Executive Director Interregional Affairs, Southwest Power Pool	12-31-2011	

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TECHNOLOGY AND SERVICES		
Jim Buccigross	Vice President Energy Industry Practice, 8760, Inc.	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		12-31-2010
V A C A N C Y		12-31-2011
V A C A N C Y		12-31-2011
V A C A N C Y		12-31-2011

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NORTH AMERICAN ENERGY STANDARDS BOARD
2010 EXECUTIVE COMMITTEE TERMS – Retail Gas Quadrant

SERVICE PROVIDERS/SUPPLIERS SEGMENT		**TERM END:**
Dwight M. Whitley, Jr.	Corporate Counsel, Sierra Southwest Cooperative Services, Inc.	12-31-2011
V A C A N C Y		12-31-2011
Richard Zollars	Director - Data and Billing, Dominion Retail, Inc.	12-31-2010
V A C A N C Y		12-31-2010
DISTRIBUTORS SEGMENT		
Dan Jones	Supervisor - Certified Supplier Business Center, Duke Energy	12-31-2011
V A C A N C Y		12-31-2011
Michael Novak	Assistant General Manager, National Fuel Gas Distribution Corporation	12-31-2010
V A C A N C Y		12-31-2010
END USERS/PUBLIC AGENCIES SEGMENT		
V A C A N C Y		12-31-2010
V A C A N C Y		12-31-2010
V A C A N C Y		12-31-2011
V A C A N C Y		12-31-2011

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NORTH AMERICAN ENERGY STANDARDS BOARD
2010 EXECUTIVE COMMITTEE ALTERNATES – Wholesale Gas Quadrant

END USER SEGMENT	
Paul A. Jones	Senior Marketing Representative, Salt River Project
Art Morris	Gas Originator, Florida Power & Light Company
Kenneth Nordlander	Fuel Procurement, Arizona Public Service Company
DISTRIBUTION SEGMENT	
Rick Ishikawa	Interconnect Account Manager in Capacity Products Group, Southern California Gas 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
Ronald G. Tomlinson	Manager – Business Technology, Dominion Gas 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.
Catherine R. Abercrombie	Director – Regulatory Affairs, ConocoPhillips Gas and Power Marketing
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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2010 EXECUTIVE COMMITTEE ALTERNATES – Retail Electric Quadrant

UTILITIES SEGMENT	
Keith P. Hock	Director ARES Business Center, Ameren Services Company
H. Neal Allen	Profitability & Economic Analysis Manager, Alabama Power Company
Debbie McKeever	Market Advocate, Oncor
William J. Welzant	Principal Supplier Services Analyst, Supplier Account Management, Baltimore Gas and Electric
END USERS/PUBLIC AGENCIES SEGMENT	

SERVICE PROVIDERS/SUPPLIERS SEGMENT	
Brandon S. Siegel	Manager – Market Management, E:SO
Wendell Miyaji	Senior Director – Systems, Comverge, Inc.

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2010 EXECUTIVE COMMITTEE ALTERNATES – Wholesale Electric Quadrant

END USER SEGMENT		**SUB-SEGMENT**
Mark W. Hackney	Regional Director – Transmission, 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
Ronald C. Snead	General Manager, System Planning and Business Services, Duke Energy	IOU
GENERATION SEGMENT		**SUB-SEGMENT**
Joel Dison	Project Manager, Southern Company Generation and Energy Marketing	IOU
Lou Oberski	Director – Electric Market Policy, Dominion Resources Services, Inc	IOU
Francis Halpin	Bonneville Power Administration	Fed/State/Prov.
MARKETER/BROKER SEGMENT		**SUB-SEGMENT**
Jeff Ackerman	Manager, CRSP-Energy Mgmt., Western Area Power Administration	Fed/State/Prov
Brenda Anderson	Bonneville Power Administration	Fed/State/Prov
Valerie Crockett	Senior Program Manager, Energy Markets & Policy, Tennessee Valley Authority	Fed/State/Prov
TRANSMISSION SEGMENT		**SUB-SEGMENT**
Barbara Rehman	Policy Development & Analysis, Bonneville Power Administration	Fed/State/Prov.
Chuck Feagans	Tennessee Valley Authority	Fed/State/Prov.
Shay Labray	Transmission Strategy Consultant, PacifiCorp	IOU
Jane Daly	Rate & Regulatory Advisor, Arizona Public Service Company	IOU
Narinder Saini	Policy Consultant, Entergy Services, Inc.	IOU
J.T. Wood	Southern Company Services	IOU
Dean Ulch	Principal Engineer – Transmission Policy and Services, Southern Company Services, Inc.	IOU
Hasnah Mat-Amin	Market Interface Manager, Western Electricity Coordinating Council	At Large
Ross Kovacs	Transmission Strategic Coordinator, Georgia Transmission Corporation	Muni/Coop

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INDEPENDENT GRID OPERATORS/PLANNERS SEGMENT		SUB-SEGMENT
Paul Wattles	Supervisor Demand Side Programs, Electric Reliability Council of Texas (ERCOT)	
Bill Blevins	Sr. Market Support Analyst, Electric Reliability Council of Texas (ERCOT)	
Heather Sanders	Renewable Integration Support Manager, California ISO	
Robert Coughlin	Principal Scientist Reliability & Operations Compliance, ISO New England, Inc.	
Eric Winkler	Project Manager – FCM and Tariff Administration, ISO New England, Inc.	
Cheryl Mendrala	Principal Engineer, ISO New England, Inc.	
Jason Marshall	Technical Manager, Midwest ISO	
Marie Knox	Sr. Standards Compliance Analyst, Midwest ISO	
Dean Hartung	Manager Real Time Market Operations, PJM Interconnection, LLC	
Cathy Wesley	Sr. Analyst, PJM Interconnection, LLC	
Carl Monroe	Sr. Vice President Operations & Chief Operating Officer, Southwest Power Pool	
Greg Campoli	Supervisor – Reliability Compliance and Assessment, New York ISO	
Diana Pommen	Director Interjurisdictional Affairs, Alberta Electric System Operator	
Jimmy Womack	Manager-Tariff Administration, Southwest Power Pool	
Terry Bilke	Director Standards Compliance and Strategy, Midwest ISO	

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NORTH AMERICAN ENERGY STANDARDS BOARD
2010 EXECUTIVE COMMITTEE ALTERNATES – Retail Gas Quadrant

DISTRIBUTORS SEGMENT	
Joe Stengel	Manager, Federal Regulatory Affairs, Philadelphia Gas Works
END USERS/PUBLIC AGENCIES SEGMENT	
SERVICE PROVIDERS/SUPPLIERS SEGMENT	
Paul Cherevka	Project Manager Data Warehouse, Dominion Retail

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July 30, 2010

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

FROM: Rae McQuade, NAESB President

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

NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETINGS
Hosted by El Paso Western Pipeline, Colorado Springs, CO

First, let me thank El Paso Western Pipeline and Bill Griffith for the generosity and commitment to the NAESB organization through hosting this series of meetings. Without such support, it would be very difficult to maintain the NAESB budget and provide various locations around the country to encourage attendance at the NAESB in-person meetings.

As we have announced at prior Executive Committee meetings, meeting announcements and in other communications, the Executive Committee (EC) will meet in Colorado Springs, CO hosted by the El Paso Western Pipeline. Below are the meeting arrangements:

Where:	El Paso Western Pipeline Offices, 2 North Nevada Avenue, Colorado Springs, CO
Contact:	Veronica Thomason, 713-356-0060
When:	Tuesday, August 17 -- 10:00 a.m. to 4:00 p.m. MT – Wholesale Electric Quadrant
	Wednesday, August 18 -- 10:00 a.m. to 4:00 p.m. MT – Retail Gas Quadrant and Retail Electric Quadrant
	Thursday, August 19 -- 9:00 a.m. to 3:00 p.m. MT – 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. Travel information is posted on the NAESB web site on the EC pages and can be directly accessed from the following link: http://www.naesb.org/pdf4/ec081710ma.doc. If you plan to participate by conference call, the information to do so is provided in this document. The EC meetings will be web cast as well. The meetings, conference calling and web casting is open to any interested party.

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, 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 posted on the web site, 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 2010 will be conference call/web casts in recognition of the small number of in-person attendance from the 2009/2010 records, and also in recognition of the reduced travel budgets for 2010 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.

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.

North American Energy Standards Board
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There are other NAESB subcommittee meetings being held in conjunction with the EC meetings. They are held in various locations, and available via conference call and web cast. The details are:

Date	Time	Meeting/Location
Monday, August 16	12 pm to 1 pm MT	REQ/RGQ Glossary Meeting Location: El Paso Western Pipeline Offices, 2 North Nevada Avenue, Colorado Springs, CO Conference Call Number: 866-740-1260 Access Code: 7133560 Security Code: 1221 Web Cast: http://www.readytalk.com (please use same codes) NAESB web page: http://www.naesb.org/RGQ/rgq_glossary.asp
	1 pm to 4 pm MT	Retail BPS Meeting – Day 1 of 2 Location: El Paso Western Pipeline Offices, 2 North Nevada Avenue, Colorado Springs, CO Conference Call Number: 866-740-1260 Access Code: 7133560 Security Code: 1221 Web Cast: http://www.readytalk.com (please use same codes) NAESB web page: http://www.naesb.org/retail_bps.asp
Tuesday August 17	10 am to 4 pm MT	WEQ EC Meeting Location: El Paso Western Pipeline Offices, 2 North Nevada Avenue, Colorado Springs, CO Conference Call Number: 866-740-1260 Access Code: 7133562 Security Code: 8724 Web Cast: http://www.readytalk.com (please use same codes) NAESB web page: http://www.naesb.org/weq/weq_ec.asp
	9 am to 3 pm MT	Retail BPS Meeting – Day 2 of 2 Location: El Paso Western Pipeline Offices, 2 North Nevada Avenue, Colorado Springs, CO Conference Call Number: 866-740-1260 Access Code: 7133560 Security Code: 1221 Web Cast: http://www.readytalk.com (please use same codes) NAESB web page: http://www.naesb.org/retail_bps.asp
	9 am to 4 pm MT	WGQ IR/Technical Subcommittees Meeting – Day 1 of 2 Location: El Paso Western Pipeline Offices, 2 North Nevada Avenue, Colorado Springs, CO Conference calling and web casting not available unless requested in advance with subcommittee chair approval NAESB web page: http://www.naesb.org/WGQ/ir.asp

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Date	Time	Meeting/Location
Wednesday, August 18	10 am to 4 pm MT	Retail EC Meeting by phone/web cast/ for in person attendance, please join NAESB staff Location: El Paso Western Pipeline Offices, 2 North Nevada Avenue, Colorado Springs, CO Conference Call Number: 866-740-1260 Access Code: 7133562 Security Code: 7318 Web Cast: http://www.readytalk.com (please use same codes) NAESB web page: http://www.naesb.org/REQ/req_ec.asp
	9 am to 4 pm MT	WEQ OASIS Subcommittee – Day 1 of 2 Location: El Paso Western Pipeline Offices, 2 North Nevada Avenue, Colorado Springs, CO Conference Call Number: 866-740-1260 Access Code: 7133564 Security Code: 3521 Web Cast: http://www.readytalk.com (please use same codes) NAESB web page: http://www.naesb.org/WEQ/weq_oasis.asp
	9 am to 4 pm MT	WGQ IR/Technical Subcommittees Meeting – Day 2 of 2 Location: El Paso Western Pipeline Offices, 2 North Nevada Avenue, Colorado Springs, CO Conference calling and web casting not available unless requested in advance with subcommittee chair approval NAESB web page: http://www.naesb.org/WGQ/ir.asp
Thursday, August 19	9 am to 3 pm MT	WGQ EC Meeting Location: El Paso Western Pipeline Offices, 2 North Nevada Avenue, Colorado Springs, CO Conference Call Number: 866-740-1260 Access Code: 7133562 Security Code: 2843 Web Cast: http://www.readytalk.com (please use same codes) NAESB web page: http://www.naesb.org/WGQ/ec.asp
	9 am to 12 pm MT	WEQ OASIS Subcommittee – Day 2 of 2 Location: El Paso Western Pipeline Offices, 2 North Nevada Avenue, Colorado Springs, CO Conference Call Number: 866-740-1260 Access Code: 7133564 Security Code: 3521 Web Cast: http://www.readytalk.com (please use same codes) NAESB web page: http://www.naesb.org/WEQ/weq_oasis.asp

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

Best Regards, *Rae*

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CONFERENCE CALLING AND WEB CONFERENCING INSTRUCTIONS

FOR THE EXECUTIVE COMMITTEE AND RELATED SUBCOMMITTEE MEETINGS

AUGUST 16-19, 2010

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

To join the conference call:

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

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

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

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

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

Tuesday, August 17, 2010 – 10:00 am to 4:00 pm MT
El Paso Western Pipeline Offices, 2 North Nevada Avenue, Colorado Springs, CO

#	Agenda Item
1.	Welcome
	a. Antitrust Guidelines http://www.naesb.org/misc/antitrust_guidance.doc
	b. Welcome to members and attendees
	c. 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)
	d. Adoption of WEQ Agenda (simple majority) http://www.naesb.org/pdf4/ec081710a.doc
2.	Adoption of Wholesale Electric Quadrant Draft Minutes (simple majority to approve):
	a. May 4, 2010 Draft Minutes: http://www.naesb.org/pdf4/weq_ec050410rm.doc
	b. June 4, 2010 WEQ/WGQ Draft Minutes: http://www.naesb.org/pdf4/weq_wgq_ec060410rm.doc
	c. June 16, 2010 WEQ/REQ Draft Minutes: http://www.naesb.org/pdf4/weq_req_ec061610rm.doc
	d. July 7, 2010 Draft Minutes: http://www.naesb.org/pdf4/weq_ec070710rm.doc
3.	Consideration and Vote on Minor Corrections (simple majority to approve):
	a. Minor Correction MC10019, Submitted by D. Davis, Williams Gas Pipeline for NAESB WGQ Version 1.9: Joint NAESB WEQ Version 002.1 Standard WEQ-014-A and WGQ Version 1.0 Standard No. 11.4.1 (Implementation Guide for Electronic Tariff Filing): http://naesb.org/pdf4/wgq_weq_mc10019.doc - for WEQ EC consideration August 17, 2010 *(Notational Ballot sent to WGQ EC on July 23 – Due August 6, 2010)* Comments provided on August 11, 2010 by E Skiba, Midwest ISO: http://www.naesb.org/pdf4/wgq_mc081110_miso.doc
	b. WEQ-001 Minor Correction to be applied to Version 002.2, Submitted by M. Goldberg, ISO New England Inc.: http://www.naesb.org/pdf4/weq_ec081710w1.doc - for WEQ EC consideration August 17, 2010.
4.	Update on efforts for Parallel Flow Visualization: Recommendation with Comments Due August 30, 2010 http://www.naesb.org/pdf4/weq_072910_reqcom.doc, Letter from NERC: http://www.naesb.org/pdf4/weq_bps071510w1.pdf Comments received to date: submitted by E. Skiba on August 11, 2010 on behalf of the WEQ BPS; http://www.naesb.org/pdf4/weq_072910_weq_bps.doc
5.	Review and vote to approve scoping effort for coordination of service across multiple transmission systems: http://www.naesb.org/pdf4/weq_ec_samts_061810a6.doc, http://www.naesb.org/pdf4/weq_ec_samts_061810a4.doc, http://www.naesb.org/pdf4/weq_ec_samts_061810a5.doc
6.	Update on WEQ/REQ efforts for smart grid standards for NIST PAPs 3,4 and 9: http://www.naesb.org/pdf4/smart_grid_ssd072210w1.xls (Working papers for developing data requirements for PAPs 3, 4, and 9 as a basis for the draft recommendation for phase 2)
7.	Update on WEQ/REQ efforts for smart grid standards for NIST PAP 10 and OpenADE: http://www.naesb.org/pdf4/smart_grid_pap10_080610a.doc (Invitation to Participate), http://www.naesb.org/pdf4/smart_grid_pap10_081010reqcom_a1.doc, http://www.naesb.org/pdf4/smart_grid_pap10_081010reqcom_a2.doc, http://www.naesb.org/pdf4/smart_grid_pap10_081010w6.doc (Draft Recommendations out for informal comment and core model from Bill Cox), and http://www.naesb.org/pdf4/r10008.doc OpenADE Request
8.	Subcommittee Updates (meeting materials for updates will be provided by leadership as they are available):
	a. Triage Subcommittee: April 30 Report: http://www.naesb.org/pdf4/tr043010disposition.doc, Actions Pending: http://www.naesb.org/pdf4/tr080210agenda.doc
	b. Business Practices Subcommittee (BPS) TLR and Parallel Flow Visualization: http://www.naesb.org/pdf4/weq_ec081710w3.ppt (Presentation)

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

Tuesday, August 17, 2010 – 10:00 am to 4:00 pm MT
El Paso Western Pipeline Offices, 2 North Nevada Avenue, Colorado Springs, CO

#	Agenda Item
	c. Demand Side Management – Energy Efficiency (DSM-EE) Subcommittee
	d. OASIS Subcommittee
	e. Joint Electric Scheduling Subcommittee (JESS)
	f. Standards Review Subcommittee (SRS): http://www.naesb.org/pdf4/weq_ec081710w4.ppt (Presentation)
	g. Glossary Efforts
	h. Publication Schedule: WGQ Publication Schedule: http://www.naesb.org/misc/wgq_publication_schedule_072910.doc, WEQ Publication Schedule: http://www.naesb.org/misc/weq_publication_schedule_072910.doc, Retail Publication Schedule: http://www.naesb.org/misc/retail_publication_schedule_072910.doc (Retail and WGQ provided for context)
9.	Review, discuss, identify changes and vote to approve changes to the 2010 Annual Plan to be proposed to the Board of Directors: http://www.naesb.org/misc/weq_2010_annual_plan_redlined_080210.doc (simple majority vote for EC endorsement of proposed changes to be forwarded for Board approval)
10.	Board of Directors, Board Committee and Regulatory Updates (no votes or action to be taken):
	a. Board Updates – Board Meeting June 24, 2010 http://www.naesb.org/pdf4/bd062410dm.doc
	b. Board Critical Infrastructure Committee: http://www.naesb.org/pdf4/bd_cic_071910notes.doc
	c. Quadrant Updates: Wholesale Gas and Retail key activities – WGQ Annual Plan, Retail Annual Plan http://www.naesb.org/pdf4/wgq_2010_annual_plan.doc (WGQ), http://www.naesb.org/pdf4/retail_2010_annual_plan.doc (Retail)
	d. Regulatory Efforts: http://www.naesb.org/pdf4/ferc070810_samts_progress_report.pdf
	e. EIR Administrator RFP
11.	Other Business 2010 Schedule: http://www.naesb.org/misc/2010_schedule.pdf
12.	Adjourn

Attire – Business Casual

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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING
RETAIL QUADRANTS DRAFT AGENDA
Wednesday, August 18, 2010 – 10:00 am to 4:00 pm MT
El Paso Western Pipeline Offices, 2 North Nevada Avenue, Colorado Springs, CO

#	Agenda Item

1. Welcome
   a. Antitrust Guidelines http://www.naesb.org/misc/antitrust_guidance.doc (Guidance)
   b. Welcome to members and attendees
   c. 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)
   d. Adoption of Retail Agenda (simple majority) http://www.naesb.org/pdf4/ec081710a.doc
2. Adopt Retail Quadrants February 3, 2010 Draft Minutes (simple majority to approve): http://www.naesb.org/pdf4/retail_ec020310dm.doc
   a. May 5, 2010 Draft Minutes: http://www.naesb.org/pdf4/retail_ec050510dm.doc
   b. June 16, 2010 WEQ/REQ Draft Minutes: http://www.naesb.org/pdf4/weq_req_ec061610rm.doc
3. Review and Discuss REQ/RGQ Request for Formal Comments on 2009 Retail Annual Plan Item No. 10 (a) and (c): Service Request, Disconnection and Reconnection in the Registration Agent Model http://www.naesb.org/pdf4/retail_2009_ap_10a_10c_rec.doc (Recommendation) for Vote (supermajority to approve)
   Comments Due May 7, 2010: http://www.naesb.org/pdf4/retail_040710_reqcom.doc
   Comments submitted by J. Cargas, City of Houston - http://naesb.org/pdf4/retail_040710cityofhouston.doc
4. Review and Discuss REQ/RGQ Request for Formal Comments on 2010 Retail Annual Plan Item No. 4 - Billing and Payments: Recommendation: http://naesb.org/pdf4/retail_2010_ap4_rec.doc and Attachment: http://naesb.org/pdf4/retail_2010_ap4_rec_attachment.ppt (Models) for Vote (supermajority to approve)
   Comments Due July 15, 2010, 2010: http://www.naesb.org/pdf4/retail_061510_reqcom.doc
   No comments received
5. Consideration and Vote on Minor Corrections (simple majority to approve):
   Minor Correction MC10025 - Version 1.9 (Errata) for NAESB WGQ Internet Electronic Transport (Internet ET) Manual and NAESB RXQ Internet ET Manual, Version 1.2, Submitted by C. Burden, Joint WGQ Information Requirements/Technical Subcommittee http://www.naesb.org/pdf4/wgq_req_rgq_mc10025.doc - for Retail EC consideration August 18, 2010 *(Notational Ballot sent to WGQ EC on July 23 – Due August 6, 2010)*
6. Update on WEQ/REQ efforts for smart grid standards for NIST PAPs 3,4 and 9: http://www.naesb.org/pdf4/smart_grid_ssd072210w1.xls (Working papers for developing data requirements for PAPs 3, 4, and 9 as a basis for the draft recommendation for phase 2)
7. Update on WEQ/REQ efforts for smart grid standards for NIST PAP 10 and OpenADE: http://www.naesb.org/pdf4/smart_grid_pap10_080610a.doc (Invitation to Participate), http://www.naesb.org/pdf4/smart_grid_pap10_081010reqcom_a1.doc, http://www.naesb.org/pdf4/smart_grid_pap10_081010reqcom_a2.doc, http://www.naesb.org/pdf4/smart_grid_pap10_081010w6.doc (Draft Recommendations out for informal comment and core model from Bill Cox), and http://www.naesb.org/pdf4/r10008.doc OpenADE Request
8. Discuss Retail Publication Schedule: WGQ Publication Schedule: http://www.naesb.org/misc/wgq_publication_schedule_072910.doc, WEQ Publication Schedule: http://www.naesb.org/misc/weq_publication_schedule_072910.doc, Retail Publication Schedule: http://www.naesb.org/misc/retail_publication_schedule_072910.doc (WEQ and WGQ provided for context)
9. Update on Subcommittee Activities (meeting materials for updates will be provided by leadership as they are available):
   a. Triage Subcommittee: April 30 Report: http://www.naesb.org/pdf4/tr043010disposition.doc, Actions Pending:

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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING
RETAIL QUADRANTS DRAFT AGENDA
Wednesday, August 18, 2010 – 10:00 am to 4:00 pm MT
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#	Agenda Item

http://www.naesb.org/pdf4/tr080210agenda.doc

b. Business Practices Subcommittee (BPS) and Texas Task Force: http://www.naesb.org/pdf4/retail_ec081810w1.doc

c. DSM-EE Subcommittee

d. Information Requirements Subcommittee (IR – Not Active)

e. Technical Electronic Implementation Subcommittee (TEIS)

f. Glossary Efforts

g. Smart Grid Standards Subcommittee and Smart Grid PAP 10 Standards Subcommittee

10. Review, discuss, identify changes and vote to approve changes to the 2010 Annual Plan to be proposed to the Board of Directors: http://www.naesb.org/misc/retail_2010_annual_plan_redlined_080210.doc (simple majority vote for EC endorsement of proposed changes to be forwarded for Board approval)

11. Board of Directors, Board Committee and Regulatory Updates (no votes or action to be taken):

a. Board Updates – Board Meeting June 24, 2010 http://www.naesb.org/pdf4/bd062410dm.doc

b. Board Critical Infrastructure Committee: http://www.naesb.org/pdf4/bd_cic_071910notes.doc

c. Regulatory Efforts

d. Membership - http://www.naesb.org/misc/membership_slide_061110.ppt, http://www.naesb.org/misc/membership_report_061110.doc (Membership Profile and Report)

e Wholesale Gas and Wholesale Electric key activities – WGQ Annual Plan, WEQ Annual Plan - http://www.naesb.org/pdf4/wgq_2010_annual_plan.doc (WGQ), http://www.naesb.org/pdf4/weq_2010_annual_plan.doc (WEQ)

12. Other Business
2010 Schedule: http://www.naesb.org/misc/2010_schedule.pdf

13. Adjourn

Attire – Business Casual

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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING
WHOLESALE GAS QUADRANT DRAFT AGENDA
Thursday, August 19, 2010 – 9:00 am to 3:00 pm MT
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#	Agenda Item

1. Welcome
   a. Antitrust Guidelines http://www.naesb.org/misc/antitrust_guidance.doc (Guidance)
   b. Welcome to members and attendees
   c. Quorum Establishment: Roll Call of WGQ Members and Alternates: http://www.naesb.org/pdf4/ec_terms.pdf (EC) and http://www.naesb.org/pdf4/alt_ec_members.pdf (EC Alt)
   d. Adoption of WGQ Agenda (simple majority) http://www.naesb.org/pdf4/ec081710a.doc
2. Adopt WGQ Draft Minutes (simple majority to approve):
   a. February 4, 2010 Draft Minutes: http://www.naesb.org/pdf4/wgq_ec020410dm.doc, http://www.naesb.org/pdf4/wgq_ec081910w3.doc
   b. June 4, 2010 Draft WEQ/WGQ Minutes: http://www.naesb.org/pdf4/weq_wgq_ec060410rm.doc
3. Review and Discuss for Possible Vote: Recommendation R09006 - Add a new data element "Contract" in the following Transaction Datasets for the NAESB WGQ Version 1.8 release: NAESB WGQ Standard No. 3.4.2, Payment Remittance and NAESB WGQ Standard No. 3.4.4, Service Requester / Charge Allowance Invoice Recommendation: http://naesb.org/pdf4/r09006_rec.doc (Super majority Vote to Approve)

   Comments Due February 26, 2010: http://www.naesb.org/pdf4/wgq_012710reqcom.doc
   No Comments Received
4. Review and Discuss for Possible Vote Recommendation: R08028/2010 WGQ Annual Plan Item 3/2009 WGQ Annual Plan Item 4/2008 WGQ Annual Plan Item 3 – Eliminate Standards 5.4.4. (Replacement Capacity);
   Recommendation: http://www.naesb.org/pdf4/r08028_wgq_2010_api_3_rec_071410.doc,
   Attachment 1 Offer: http://www.naesb.org/pdf4/r08028_wgq_2010_api_3_rec_071410_attach1.doc,
   Attachment 2 Bid: http://www.naesb.org/pdf4/r08028_wgq_2010_api_3_rec_071410_attach2.doc,
   Attachment 3 Award Download: http://www.naesb.org/pdf4/r08028_wgq_2010_api_3_rec_071410_attach3.doc,
   Attachment 4 Withdrawal Download: http://www.naesb.org/pdf4/r08028_wgq_2010_api_3_rec_071410_attach4.doc,
   Attachment 5 Business Documentation: http://www.naesb.org/pdf4/r08028_wgq_2010_api_3_rec_071410_attach5.doc, and
   Attachment 6 Principles/Standards/Interpretations as modified in redline:
   http://www.naesb.org/pdf4/r08028_wgq_2010_api_3_rec_071410_attach6.doc (Super majority Vote to Approve)

   Comments Due August 13, 2010: http://www.naesb.org/pdf4/wgq_012710reqcom.doc
   Comments Received To Date:
   http://www.naesb.org/pdf4/wgq_071410williams_gas_pipeline.doc submitted by Dale Davis, Williams Gas Pipeline
   http://www.naesb.org/pdf4/wgq_071410williams_gas_pipeline_additional_comments.doc submitted by Dale Davis, Williams Gas Pipeline
5. Review and Discuss for Possible Vote: Recommendation R99033/R96018/R04028 – Redesign of Operationally Available and Unsubscribed data set; Recommendation: http://www.naesb.org/pdf4/r99033_r96018_r04038_rec_051710.doc, Attachment 1: http://www.naesb.org/pdf4/r99033_r96018_r04038_rec_051710_attach1.doc, and Attachment 2: http://www.naesb.org/pdf4/r99033_r96018_r04038_rec_051710_attach2.doc (Super majority Vote to Approve)

   Comments Due June 17, 2010: http://www.naesb.org/pdf4/wgq_051810reqcom.doc
   Comments Received: http://www.naesb.org/pdf4/wgq_051810_r99033_r96018_r04038_sscgp.doc submitted by D. Field, Southern Star Central Gas Pipeline

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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING
WHOLESALE GAS QUADRANT DRAFT AGENDA
Thursday, August 19, 2010 – 9:00 am to 3:00 pm MT
El Paso Western Pipeline Offices, 2 North Nevada Avenue, Colorado Springs, CO

#	Agenda Item

Request from leadership to consider and review a revised recommendation instead of the one sent out for comment: Revised recommendation for R99033 et al: http://www.naesb.org/pdf4/r99033_r96018_r04038_rec_072210.doc, Attachment 1: http://www.naesb.org/pdf4/r99033_r96018_r04038_rec_072210_attach1.doc, Attachment 2: http://www.naesb.org/pdf4/r99033_r96018_r04038_rec_072210_attach2.docAttachment 3: http://www.naesb.org/pdf4/r99033_r96018_r04038_rec_072210_attach3.rtf,and Attachment 4: http://www.naesb.org/pdf4/r99033_r96018_r04038_rec_072210_attach4.rtf (Simple majority vote)

Request from leadership to consider a shortened comment period – August 23 to September 6: Request for Comment on Revised Recommendation: http://www.naesb.org/misc/wgq_082310reqcom.doc (Simple majority vote)

6. Review and Discuss for Possible Vote Recommendation R09021/R09022 – Modifications to the Invoice (NAESB WGQ Standard No. 3.4.1) and Service Requester Level Charge/Allowance Invoice (NAESB WGQ Standard No. 3.4.4); Recommendation: http://www.naesb.org/pdf4/r09021_r09022_rec_051710.doc (Super majority Vote to Approve)

   Comments Due June 17, 2010: http://www.naesb.org/pdf4/wgq_051810reqcom.doc
   No Comments Received

7. Review and Discuss for Possible Vote Recommendation R09025 – Create a new EDM standard; Recommendation: http://naesb.org/pdf4/r09025_rec_052510.doc (Super majority Vote to Approve)

   Comments Due June 24, 2010: http://www.naesb.org/pdf4/wgq_052510reqcom.doc
   No Comments Received

8. Review and Discuss for Possible Vote Recommendation R09014/2010 WGQ Annual Plan Item 6 - Create a section/heading under Informational Postings called Regulatory to include all filings made to the FERC; Recommendation: http://naesb.org/pdf4/r09014_wgq_2010_api_6_rec_052510.doc (Super majority Vote to Approve)

   Comments Due June 24, 2010: http://www.naesb.org/pdf4/wgq_052510reqcom.doc
   No Comments Received

9. Review and Discuss for Possible Vote Recommendation 2010 WGQ Annual Plan Item 5 – Review minimum technical characteristics in Appendices B, C, and D of the WGQ QEDM Manual, and make changes as appropriate; Recommendation: http://naesb.org/pdf4/wgq_2010_api_5_rec_052510.doc (Super majority Vote to Approve)

   Comments Due June 24, 2010: http://www.naesb.org/pdf4/wgq_052510reqcom.doc
   No Comments Received

10. Review and Discuss for Possible Vote Recommendation R10001 - Update the NAESB Wholesale Gas Quadrant (WGQ) Quadrant Electronic Delivery Mechanism (QEDM) Manual to add the ability to provide Informational Postings reports downloads in a CSV file format; Recommendation: http://www.naesb.org/pdf4/wgq_r10001_rec.doc (Super majority Vote to Approve)

    Comments Due August 5, 2010: http://www.naesb.org/pdf4/wgq_070610reqcom.doc
    No Comments Received To Date

11. Review and Discuss for Possible Vote Recommendation R08008 - Develop customer security administration standards; Recommendation: http://www.naesb.org/pdf4/r08008_rec.doc (Super majority Vote to Approve)

    Comments Due August 5, 2010: http://www.naesb.org/pdf4/wgq_071610reqcom.doc
    No Comments Received To Date

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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING
WHOLESALE GAS QUADRANT DRAFT AGENDA
Thursday, August 19, 2010 – 9:00 am to 3:00 pm MT
El Paso Western Pipeline Offices, 2 North Nevada Avenue, Colorado Springs, CO

#	Agenda Item

12. Consideration and Possible Vote on Minor Corrections if recommendations are available by August 18, 2010 – materials will be posted as they are available (simple majority to approve) – Minor Corrections that may be prepared for vote based on efforts by the Information Requirements /Technical Subcommittees at their meetings on August 17-18, 2010

    MC10018 – Submitted on April 9, 2010 by Submitted D. Davis and C. Burden, Williams Gas Pipeline, Version 2.0: to add code values to NAESB WGQ Standard 2.4.3 – Allocation, NAESB WGQ Standard 2.4.4 – Shipper Imbalance and NAESB WGQ Standard 3.4.1 – Transportation/Sales Invoice, http://www.naesb.org/pdf4/wgq_mc10018.doc

    MC10019 -- Submitted on April 22, 2010 by D. Davis, Williams Gas Pipeline for NAESB WGQ Version 1.9: Joint NAESB WEQ Version 002.1 Standard WEQ-014-A and WGQ Version 1.0 Standard No. 11.4.1 (Implementation Guide for Electronic Tariff Filing): http://naesb.org/pdf4/wgq_weq_mc10019.doc - for WEQ EC consideration August 17, 2010 *(Notational Ballot sent to WGQ EC on July 23 – Due August 6, 2010)*
    Comments provided on August 11, 2010 by E Skiba, Midwest ISO: http://www.naesb.org/pdf4/wgq_mc081110_miso.doc

    MC10022 -- Submitted on June 28, 2010 by T. Gwilliam, Iroquois Gas Transmission System, L.P., to add code value description "Deferred Asset Surcharge" with code value "DAS" to the list of standardized code values for the following datasets and data elements: 3.4.1, 5.4.1, 5.4.2, 5.4.3, 5.4.7, 5.4.8, 5.4.18, 5.4.19, 5.4.20, 5.4.21, 5.4.22, http://www.naesb.org/pdf4/wgq_mc10022.doc

    MC10024 – Submitted on June 11, 2010 as R10006, by Submitted by R. Hogge, Dominion Transmission, to add , Reduction Reason code value(s) to NAESB WGQ Standard 1.4.6, http://www.naesb.org/pdf4/wgq_mc10024.doc

    MC10026– Submitted on July 12, 2010 by K. Brooks, Williston Basin Interstate Pipeline Company, to add a Code Value for the data element "Transaction Type" to the following Transaction Data Sets: Nomination (1.4.1), Scheduled Quantity (1.4.5), Pre-determined Allocation (2.4.1), Allocation (2.4.3), Shipper Imbalance (2.4.4), and Transportation/Sales Invoice (3.4.1), http://www.naesb.org/pdf4/wgq_mc10026.doc

    MC10028– Submitted on July 23, 2010 by M. Mahle, Transcanada to add back the Code Value for the data element "Surcharge Indicator" to the following Transaction Data Sets: Offer Download (5.4.1), Bid Download (5.4.2) and Award Download (5.4.3), http://www.naesb.org/pdf4/wgq_mc10028.doc

    MC10029– Submitted on July 27, 2010 by K. Brooks, Williston Basin Interstate Pipeline Company to correct NAESB WGQ Standard 4.3.54 for Full Name and Abbreviation from "Site Maps" (plural) to "Site Map" (singular) to be consistent with Standards 4.3.42 and 4.3.25. http://www.naesb.org/pdf4/wgq_mc10029.doc

    MC10030– Submitted on August 9, 2010 D. Davis, Joint WGQ Information Requirements/Technical Subcommittee to correct the NAESB WGQ Version 1.9 Standard No.5.4.7 (Offer Upload) data dictionary for the condition of the data element Special Terms and Miscellaneous Notes – Storage Inventory Conditions, http://www.naesb.org/pdf4/wgq_mc10030.doc

13. Review and Discuss Recommendation R10004 – Modify the usage of beginning time and ending time as used in several of the nominations, flowing gas and invoicing data sets, Recommendation: http://www.naesb.org/pdf4/wgq_r10004_rec_080210.doc *(Comments Due September 3, Vote to be taken at a subsequent meeting or to be taken notationally after the comment period concludes)*

14. Discuss WGQ Publication Schedule: WGQ Publication Schedule:
    http://www.naesb.org/misc/wgq_publication_schedule_072910.doc,
    WEQ Publication Schedule: http://www.naesb.org/misc/weq_publication_schedule_072910.doc,
    Retail Publication Schedule: http://www.naesb.org/misc/retail_publication_schedule_072910.doc (Retail and WEQ provided for context)

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NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING
WHOLESALE GAS QUADRANT DRAFT AGENDA
Thursday, August 19, 2010 – 9:00 am to 3:00 pm MT
El Paso Western Pipeline Offices, 2 North Nevada Avenue, Colorado Springs, CO

#	Agenda Item

15. Update on Subcommittee Activities (meeting materials for updates will be provided by leadership as they are available):
    a. Triage Subcommittee: April 30 Report: http://www.naesb.org/pdf4/tr043010disposition.doc, Actions Pending: http://www.naesb.org/pdf4/tr080210agenda.doc
    b. Business Practices Subcommittee (BPS)
    c. Joint Information Requirements and Technical Subcommittee
    d. Electronic Delivery Mechanisms (EDM) Subcommittee
    e. Interpretations Subcommittee

16. Review, discuss, identify changes and vote to approve changes to the 2010 Annual Plan to be proposed to the Board of Directors: http://www.naesb.org/misc/wgq_2010_annual_plan_redlined_080210.doc (simple majority vote for EC endorsement of proposed changes to be forwarded for Board approval)

17. Board of Directors, Board Committee and Regulatory Updates (no votes or action to be taken):
    a. Board Updates – Board Meeting June 24, 2010 http://www.naesb.org/pdf4/bd062410dm.doc
    b. Board Critical Infrastructure Committee: http://www.naesb.org/pdf4/bd_cic_071910notes.doc
    c. Quadrant Updates: Wholesale Electric and Retail key activities – WEQ Annual Plan, Retail Annual Plan http://www.naesb.org/pdf4/weq_2010_annual_plan.doc (WEQ), http://www.naesb.org/pdf4/retail_2010_annual_plan.doc (Retail)
    d. Regulatory Efforts

18. Other Business
    2010 Schedule: http://www.naesb.org/misc/2010_schedule.pdf

19. Adjourn

Attire – Business Casual

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August 1, 2010

TO: NAESB Wholesale Electric Quadrant Executive Committee and Interested Industry Participants

FROM: Cory Galik Cummings, NAESB Staff Attorney

RE: Wholesale Electric Quadrant Executive Committee Meeting Draft Minutes

NORTH AMERICAN ENERGY STANDARDS BOARD
WHOLESALE ELECTRIC QUADRANT
EXECUTIVE COMMITTEE MEETING
Tuesday, May 4, 2010 – 10:00 am to 4:00 pm Central
DRAFT MINUTES

1. Welcome

Ms. York called the meeting to order and welcomed the Wholesale Electric Quadrant ("WEQ") Executive Committee ("EC") members, alternates and other participants. Ms. Cummings gave the antitrust guidance and called the roll of the WEQ EC members and alternates. Quorum was established. Ms. Otondo moved, seconded by Mr. Skiba, to adopt the agenda. The motion passed unanimously.

2. Adoption of Wholesale Electric Quadrant Draft Minutes

The EC reviewed the February 2, 2010 WEQ EC meeting minutes. Mr. Skiba corrected some minor errors. Mr. Skiba moved, seconded by Ms. Otondo, to approve the meeting minutes as revised. The motion passed unanimously.

3. Update on Confidentiality Agreement Decisions

Since the last EC meeting an ad hoc task force was created, which drafted a recommendation that stated since the "Electric Industry Registry Administrator will have an acceptable use policy for the users of the Registry data and will also have an arrangement with data submitters that the data submitted is accurate, and since there has not been a strong indication by industry participants that the data collected and accessed is of a sensitive nature, and since the NAESB WEQ-004 Coordinate Interchange standards address the sharing of information, then at this time, the NDA will not be acted upon, but held for future needs. Should a need for an agreement to protect data sensitivity be identified and supported, the NDA will be used as the basis for such development."

Mr. Skiba expressed concern with the language in the last sentence that stated that the NDA *will* be used as the basis for any future development. Ms. McQuade asked if he would prefer that the language state that the NDA may be used as a work paper in future development efforts. The task force recommendation was modified to make this clarification. The EC also added language to clarify that R07013 was complete.

Mr. Rodriguez moved, seconded by Ms. Otondo, to accept the recommendation as modified by the EC. The motion passed unanimously.

4. Update on 2009 WEQ Annual Plan Item 5(b) Modify NAESB definitions for consistency

Ms. Rager provided the update. She was making progress on modifying the definitions but noted that it was a very time intensive process. She completed WEQ-001 and forwarded the work to Mr. Skiba and Mr. Wood. They will review the work to ensure that the content has not changed.

5. Update on progress on 2009 WEQ Annual Plan Items 5(a)(2), 5(i)/R08004/R09011 Affecting WEQ-011 Gas/Electric Coordination

Mr. Skiba noted that the joint WEQ/WGQ BPS provided late comments that addressed all of the formal comments received on the WEQ recommendation. The WGQ's recommendation comment period closed on April 29 and there were no comments received. Both the WEQ and WGQ are ready for a joint WEQ/WGQ EC meeting to vote on the

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recommendations. There was no need for a single topic conference call to discuss the recommendations. Ms. Rager will work with the co-chairs to schedule the single topic call to vote on the recommendations.

It was noted that, with the changes being made to the WEQ glossary, all recommendations going forward should be written so that the glossary is incorporated into WEQ-000.

6. Update on WEQ/REQ Recommendations for smart grid standards for NIST PAPs 3, 4 and 9

Mr. Booe provided the update. A single topic review session and conference call will be scheduled to address these recommendations. The smart grid task force has worked to address PAP03, PAP04 and PAP09. This has been a joint WEQ/REQ effort. A single recommendation was developed for PAP03 and PAP04 and two separate WEQ and REQ recommendations were created by the quadrants for PAP09. All four recommendations have gone out for formal comments, which were due April 9. NAESB staff compiled the comments. At last week's smart grid task force meeting the comments were assigned among participants to provide guidance for the ECs. The task force will be submitting late comments that contain revisions to the recommendations based on the comments received. Mr. Booe noted that many of the participants in the task force are unfamiliar with how NAESB standards are organized. Many of the comments received were helpful to normalize the recommendation with other NAESB work products. The work should be completed by next week and the EC meetings will be scheduled shortly. The WEQ recommendations will be incorporated into the WEQ Business Practice Standards and will be filed with the FERC. The NAESB office will work with FERC on how to manage the filings. This work will be published in WEQ Version 2.2.

Ms. McQuade noted that these are the first standards assigned by NIST to be completed, so there is no precedent on the NIST process for filing standards with FERC. The standards filed by NAESB have strong historic context for how the recommendation was created. She was less certain that the other work groups creating work products were putting a similar record together. The NAESB office and officers have had communications with both NIST and FERC regarding this issue.

Mr. Davis asked if the late comments submitted by the task force would change the definitions in the recommendations to make them consistent with current NAESB glossary terms. Mr. Booe responded that the Standards Review Subcommittee (SRS) noted several inconsistencies that should be addressed. The task force put significant effort into ensuring the definitions were consistent with demand response and other definitions currently in use by NAESB. Given all of the definitions currently in use for the smart grid, it has been difficult to merge all of the definitions in order to maintain consistency. The goal of the task force is to make the definitions as consistent as possible with existing NAESB definitions. Mr. Davis suggested an alternative could be the creation of a separate book for smart grid terminology. Ms. Otondo and Mr. Green were both opposed to the creation of a separate glossary for smart grid definitions. The industry should begin to create a common language if the smart grid is to become a part of it.

Mr. Skiba noted that it would be beneficial to the EC if the task force were renamed as a subcommittee – thus ensuring a direct link through leadership to the EC. He suggested the EC consider having an EC member provide leadership for this group as the work products move forward. Ms. McQuade noted she would discuss such with the Managing Committee.

7. Discussion and Possible Action on Minor Correction

Dale Davis submitted this minor correction, MC10019: Joint NAESB WEQ Version 002.1 Standard WEQ-014-A and WGQ Version 1.9 Standard No. 11.4.1 (Implementation Guide for Electronic Tariff Filing). FERC issued the FERC Implementation Guide for Electronic Filing of Parts 35, 154, 284, 300, and 341 Tariff Filings, which essentially is the same as Pages 4 – 44 of the NAESB WEQ/WGQ Implementation Guide for Electronic Tariff Filing. Subsequently, FERC issued six revised versions to its implementation guide. The issue relates directly to the maintenance of the standards in regards to FERC actions. NAESB can either turn the standards over to the FERC to maintain them or a process can be set up whereby NAESB and FERC communicate that such standards should be updated and revised to stay in synch with the FERC process. Mr. Buccigross stated that he would prefer

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NAESB to process any necessary changes as directed by FERC. Ms. McQuade would be in contact with FERC staff on this issue and will report to the EC at a later date.

8. Subcommittee Updates

Triage Subcommittee: Since the last EC meeting, the triage subcommittee took action on two requests. R1001 was a request assigned to the WGQ BPS and EDM subcommittees to update the NAESB WGQ Electronic Delivery Mechanism (EDM) Manual to add the availability to provide the Information Posting reports downloads in a CSV file format. R10002 was a request assigned to the WEQ/REQ DSM-EE subcommittee to create common interfaces and data structures necessary for enrolling demand response sites into a demand response program, the request should be assigned to the WEQ/REQ DSM-EE Subcommittee.

Business Practices Subcommittee: Mr. Skiba provided a power point presentation update. He noted the work being done on parallel flow visualization. Ms. McQuade noted the importance of this work and the fact that FERC and NERC were paying close attention to it. Mr. Skiba noted that delays reaching a solution would have an impact on NERC's parallel test providing meaningful results.

Demand Side Management – Energy Efficiency Subcommittee: Mr. True provided the update. The wholesale demand response work group created three task forces (glossary, model business practices and performance evaluation methods) to accomplish this work. The glossary task force has reviewed and synchronized the wholesale and retail demand response glossary terms and presented their work product to the wholesale demand response work group. The Performance Evaluation sub-working group has met, via conference call, to discuss the performance evaluation methodologies found in the IRC Matrix. Individual participants have volunteered to review their selected baseline methodology, and come back to the group with suggested changes to the performance evaluation method. At this point, the group does not have finalized changes that they would propose to the DSM Working Group-Wholesale Standards. The Model Business Practice sub-working group has met several times to review the language in the model business practices. Marie Pieniazek created a revision table to track versioning of the standards and is reviewing the Capacity section to review and revise language. Ms. Donna Pratt is reviewing the Regulation section for the same and Mr. True is reviewing and revising the Energy section.

On April 15, 2010, the FERC issued its final rule and adopted the WEQ Phase 1 DR M&V standards. In the final rule, the FERC noted that NAESB was best suited to develop the Phase 2 DR M&V standards and noted, "additional substantive standards would appear beneficial in creating transparent and consistent measurement and verification of demand response products and services in wholesale electric markets. The measurement and verification standards needed to accomplish this goal should be a focus of NAESB's Phase II M&V Standards development efforts." The FERC also set a one-year deadline to either complete the Phase 2 standards or report the progress made in the Phase 2 efforts.

OASIS Subcommittee and Scoping Task Force: Mr. Wood provided the update of the OASIS subcommittee. They reviewed the scope and are currently writing the Network Integrated Transmission Service (NITS) standards for WEQ-001. Once they have completed drafting the WEQ-001 standards and the technical review they will go out for informal comments. The standards drafted in WEQ-002, WEQ-003 and WEQ-013 will not go out for informal comment unless there is contention in the subcommittee. Those standards are more technical and will follow the business practice standards created in WEQ-001. The NITS standards will be filed in WEQ Version 2.2.

The WEQ EC task force for Service Across Multiple Transmission Systems (SAMTS) continues to meet. Their work will be completed in time to file the status report with FERC on this topic. While the primary focus of the task force is to narrow the scope of work for SAMTS, they will also be offering guidance to the OASIS Subcommittee on their NITS project. The guidance is not intended to delay the development of the NITS recommendation, which should be completed by the subcommittee by the end of the summer.

Joint Electric Scheduling Subcommittee (JESS) and eTag Testing: Mr. Harshbarger provided the update. Clint Aymond has replaced Jim Hansen as the NERC JESS co-chair. Version 1.8.1 of eTag went live on March 30 with no known issues. The next JESS meeting is tentatively scheduled for June 2 at 1:00 pm Central.

Standards Review Subcommittee: Mr. Saini presented a power point presentation update.

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Smart Grid Standards Task Force: Mr. Booe provided an overview on PAP10. NAESB was initially asked to develop an industry survey to gather the existing practices for usage communications between energy suppliers and consumers. A report was produced to consolidate the use cases. NIST expressed an interest in a single standard for this item and would like a standards development organization to develop the standard. This work may be assigned to NAESB, or it may be assigned to the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE). Ms. McQuade encouraged participants to stay involved in this effort, regardless of which organization is assigned the work.

Publication Schedule: The WEQ Version 2.2 will be published in September or October, to allow time for the completion of NITS. The WGQ will publish their next publication in late November. The retail publication will be published in the first quarter of 2010.

9. Review, discuss, identify changes and vote to approve changes to the 2010 Annual Plan to be proposed to the Board of Directors

Participants reviewed the 2010 WEQ Annual Plan and made changes accordingly. Mr. True moved, seconded by Mr. Davis, to adopt the annual plan as revised. The motion passed unanimously.

10. Board of Directors, Board Committee and Regulatory Updates

Board Updates: Ms. McQuade urged participants to review the minutes from the March 25 Board meeting. She noted the discussion surrounding a request from a board member to extend the NAESB demand response standards to become more detailed in regards to program design. It was determined not to pursue those standards development efforts at this time.

The Retail Structure Review Committee informed the board of the efforts taken to increase retail membership. The REQ has seen an increase in membership, mostly due to the work being addressed on the smart grid, demand response and energy efficiency. There has also been increased participation by state commission staff.

Advisory Council Updates: Ms. McQuade asked participants to review the notes from the February 13, 2010 Advisory Council meeting. She urged participants to attend this meeting, held every year in conjunction with the winter NARUC meeting.

Board Critical Infrastructure Committee: Ms. McQuade asked participants to review the notes from the March 22, 2010 Critical Infrastructure Committee meeting.

Wholesale Gas and Retail activities: The WGQ 2010 Annual Plan and the Retail 2010 Annual Plan were briefly reviewed.

Regulatory Actions: On April 8, 2010, the NAESB office filed comments on FERC's Draft National Action Plan on Demand Response. These comments highlighted the work accomplished by NAESB in demand response and to assure the industry that this is an important work paper.

EIR Administrator RFP: The request for proposals was released on February 22, 2010 with responses due May 21, 2010. Once the proposals have been received, NERC and NAESB will work together to select the registry administrator.

11. Other Business

The next WEQ EC meeting will be held on August 17, 2010 in Colorado Springs, CO, hosted by El Paso Western Pipeline.

12. Adjourn

Mr. True moved, seconded by Ms. Crockett, to adjourn the meeting at 3:43 PM Central.

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13. Attendance

May 4, 2010 – WEQ EC Attendance and Voting Record

ATTENDANCE	Motions are included within the meeting minutes. Y – indicates an affirmative vote, N indicates a vote in opposition, RB indicates that the voter requested and/or received a notational ballot to cast his or her vote during the notational balloting period, A – indicates an abstention, (NB) – indicates that the vote was made through a notational ballot, a blank cell indicates that the voter was not present when the vote was called.		
TRANSMISSION SEGMENT			SUBSEGMENT:
Phone	Patrick McGovern	Georgia Transmission Corporation	Muni/Coop
Phone	Wendy D. Weathers	Salt River Project	Fed/State/Prov.
In Person	D. Ulch for Daryl McGee	Southern Company Services	IOU
In Person	Edward Davis	Entergy Services, Inc.	IOU
In Person	M. Otondo for Mark Hackney	Arizona Public Service	at large
In Person	Bob Harshbarger	Puget Sound Energy	at large
Phone	Michelle Mizumori	WECC	At-Large
GENERATION SEGMENT			
	William J. Gallagher	Vermont Public Power Supply Authority	Muni/Coop
In Person	Kathy York	Tennessee Valley Authority	Fed/State/Prov.
	VACANCY		
In Person	John Ciza	Southern Company Services	IOU
In Person	Alan Johnson	NRG Energy, Inc.	Merchant
	Trent Carlson	RRI Energy Services, Inc.	at large
Phone	Shah Hossain	Westar Energy, Inc.	at large
MARKETERS/BROKERS SEGMENT			
In Person	Chris Norton	American Municipal Power	Muni/Coop
In Person	Valerie Crockett alt. for B. Thornton	Tennessee Valley Authority	Fed/State/Prov.
	VACANCY		
	Richard Lehman	Salt River Project	at large
Phone	John Apperson	PacifiCorp Energy	IOU
In Person	Roy True	ACES Power	at large
In Person	Barry Green	Electric Power Supply Association (EPSA)	at large
DISTRIBUTION/LOAD SERVING ENTITIES (LSE) SEGMENT			SUBSEGMENT:
Phone	Ray Phillips	Alabama Municipal Electric Authority	Muni/Coop
	VACANCY		
Phone	Alan Pritchard	Duke Energy Corporation	IOU
	Rufus D. Gladney	Public Service Electric and Gas Company	IOU
Phone	Robert Martinko	FirstEnergy Service Company	at large

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May 4, 2010 – WEQ EC Attendance and Voting Record

ATTENDANCE	Motions are included within the meeting minutes. Y – indicates an affirmative vote, N indicates a vote in opposition, RB indicates that the voter requested and/or received a notational ballot to cast his or her vote during the notational balloting period, A – indicates an abstention, (NB) – indicates that the vote was made through a notational ballot, a blank cell indicates that the voter was not present when the vote was called.		
Phone	Syd Berwager	Bonneville Power Administration	Other
In Person	Andy Rodriquez	NERC	At-Large
END USERS SEGMENT			
	VACANCY		
	Aaron Breidenbaugh	EnerNOC, Inc.	At- Large
	Lou Ann Westerfield	Idaho Public Utilities Commission, rep. National Association of Regulatory Utility Commissioners	Regulator
	VACANCY		
	Christopher Kotting	Public Utility Commission of Ohio	at large
	VACANCY		
	Paul Sorenson	Open Access Technology International, Inc.	At-Large
INDEPENDENT GRID OPERATORS/PLANNERS SEGMENT			
In Person	C. Wesley for Thomas Bowe	PJM Interconnection	
Phone	G. Campoli for Jim Castle	New York Independent System Operator, Inc.	
In Person	Matt Goldberg	ISO New England, Inc.	
	Nancy Traweek	California ISO	
In Person	Joel Mickey	Electric Reliability Council of Texas	
In Person	Ed Skiba	Midwest ISO	
Phone	Charles Yeung	Southwest Power Pool	
TECHNOLOGY AND SERVICES SEGMENT			
In Person	Jim Buccigross	8760, Inc.	

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

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- End Use (Self Generation)

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

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Other Participant Attendance

Participant	Organization	Attendance
Jonathan Booe	NAESB	Phone
Ernie Cardone	New York ISO	Phone
Cory Cummings	NAESB	In Person
Michael Desselle	SPP	In Person
Chuck Feagans	TVA	Phone
Marie Knox	Midwest ISO	Phone
Shay LaBray	PacifiCorp	Phone
Hasnah Mat-Amin	Western Electricity Coordinating Council	Phone
Rae McQuade	NAESB	In Person
Denise Rager	NAESB	Phone
Barbara Rehman	BPA	Phone
Mark Robinson	SPP	Phone
Bob Sullivan	CAISO	Phone
Veronica Thomason	NAESB	In Person
Nancy Traweek	CAISO	Phone
Jill Vaughn	Court Reporter	In Person
Eric Winkler	ISO New England	Phone

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June 15, 2010

TO: NAESB Wholesale Gas Quadrant (WGQ) and Wholesale Electric Quadrant (WEQ) Executive Committees, Designated Alternates, and Interested Industry Participants

FROM: James Culliton, NAESB Counsel

RE: Joint WGQ/WEQ Executive Committee (EC) Single Topic Conference Call Draft Minutes

JOINT WGQ/WEQ EC SINGLE TOPIC CONFERENCE CALL
Friday, June 4, 2010 – 9:00 AM to 10:00 AM Central
DRAFT MINUTES

1. Welcome

Ms. York called the meeting to order and welcomed participants to the conference call. Mr. Culliton provided the antitrust guidance and Ms. McQuade called the roll. Quorum was established in each quadrant during the meeting. Ms. Van Pelt moved, and Mr. Young seconded, to adopt the meeting agenda as posted. The motion passed unanimously.

2. WEQ review and vote on 2009 WEQ Annual Plan Items 5(a)(2) (R08004) and 5(i) (R09011) - Change the term Power Plant Operator to Power Plant Gas Coordinator in WEQ-011

Mr. Skiba provided an overview of these items. He stated that during a prior review of the draft introductory and applicability sections developed under R08004, participants had expressed concern at the potential for confusion between the NAESB and NERC glossaries for the term Power Plant Operator. He added that re-defining this term as suggested should prevent the interpretation that a relationship exists between the NAESB term "Power Plant Operator" and the NERC term "Generator Operator." There was also confusion about the acronym TSP which could be Transportation Service Provider and/or Transmission Service Provider.

After providing a brief summary of the recommendations, Mr. Skiba stated that the WEQ recommendation had initially been posted in September 2009, followed by a formal comment period. He added that two sets of comments had been received, one from WEQ SRS and the other from Consumers Energy. Mr. Skiba stated that the WEQ and WGQ had held Joint BPS sessions in mid-December to review these comments, which resulted in the submission of a Joint WGQ/WEQ Response.

Mr. Pritchard, seconded by Ms. Wesley, moved to accept the WEQ BPS recommendation for R08004/R09011. Mr. Skiba offered a friendly amendment to incorporate the suggested changes contained in the Joint WGQ/WEQ Response. Mr. Prichard and Ms. Wesley accepted this friendly amendment.

Mr. Skiba made a second friendly amendment to include a reminder to delete three items from NAESB WEQ-000 (Abbreviations, Acronyms, and Definitions of Terms): 1) the term Power Plant Operator; 2) the term Power Plant Operator Facility; 3) the acronym PPO. This amendment was offered in recognition that the recommendation proposes replacing these WEQ-011 items with different nomenclature, but it does not directly address the treatment of these orphaned items in WEQ-000. Mr. Pritchard and Ms. Wesley also accepted this friendly amendment.

Ms. York opened the floor for discussion on this motion. Ms. Otondo asked for confirmation that the term Power Plant Operator Facility is intended to apply only to generation units whose main fuel is natural gas, not to units who use natural gas as a start-up fuel. Mr. Skiba agreed that the term was not intended to reach units who use natural gas as a start-up fuel; he added that an interpretation to this effect is also included in the recommendation.

Mr. Johnson asked whether the terms in question appear in other standards outside of WEQ-011. Mr. Skiba stated that the terms appear only in the glossary and WEQ-011. Ms. York asked for further comments; none were forthcoming.

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Ms. York called the WEQ vote; 17 votes were cast in favor, with nor abstentions or opposition. Because the super majority vote of 24 was not reached, a notational ballot will be provided to the WEQ EC members unable to cast votes.

The WGQ Chair, Mr. Buccigross, asked for comments or questions concerning the complementary WGQ recommendation. Mr. Griffith noted an accidental strike-through in WGQ 0.3.14 (on page 3) and suggested that the word, "Plant," be reinserted. The group agreed to the modification.

Ms. Van Pelt made a motion, seconded by Mr. Young, to modify NAESB WGQ Definitions 0.2.1, 0.2.2, 0.2.3, add NAESB WGQ Definition 0.2.z1, and modify NAESB WGQ Standards 0.3.11, 0.3.12, 0.3.13, 0.3.14 (as revised at the meeting), and 0.3.15. Mr. Buccigross called the vote; 14 members voted in favor, with none opposed and no abstentions. Because the super majority vote of 17 was not reached, a notational ballot will be provided to the WGQ EC members unable to cast votes.

Since both the WEQ and WGQ recommendations required a two-thirds supermajority in order to be adopted, neither of the recommendations passed on the strength of in-person votes alone. Ms. McQuade announced that it would remain possible to vote via notational ballot until June 11, 2010. She added that the WEQ and WGQ EC would be duly informed of the results of the vote.

Mr. Buccigross motioned and Mr. Young seconded, to adjourn the meeting. There was no opposition. The meeting adjourned at 9:48am

3. Attendance and Voting Record

WHOLESALE GAS QUADRANT EXECUTIVE COMMITTEE			
		PRESENT	VOTE
PRODUCERS SEGMENT			
Jim Busch	BP Energy Company		In Favor (NB)
Catherine Abercrombie (for P. Frost)	ConocoPhillips Gas and Power Marketing	Phone	In Favor
Chuck Cook	Chevron	Phone	In Favor
Richard Smith	Noble Energy		In Favor (NB)
Mike Shepard	Mewbourne Oil Company		In Favor (NB)
PIPELINE SEGMENT		**PRESENT**	**VOTE**
Bill Griffith	El Paso Natural Gas	Phone	In Favor
Kathryn Burch	Spectra Energy Transmission	Phone	In Favor
Dale Davis	Williams Gas Pipeline	Phone	In Favor
Randy Young	Boardwalk Pipeline Partners	Phone	In Favor
Kim Van Pelt	Panhandle Eastern Pipe Line	Phone	In Favor
LOCAL DISTRIBUTION COMPANY (LDC) SEGMENT		**PRESENT**	**VOTE**
Rodger Schwecke	Southern California Gas		In Favor (NB)
Phil Precht	Baltimore Gas and Electric		In Favor (NB)
Paul Buckley	Washington Gas		
Mike Novak	National Fuel Gas Distribution		In Favor (NB)
Craig Colombo	Dominion Resources	Phone	In Favor

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WHOLESALE GAS QUADRANT EXECUTIVE COMMITTEE			
		PRESENT	VOTE
END USERS SEGMENT		**PRESENT**	**VOTE**
Norm Spooner	Arizona Public Service Company		
Valerie Crockett	Tennessee Valley Authority	Phone	In Favor
Lori Lynn Pennock	Salt River Project		In Favor (NB)
Art Morris (for D. Gussow)	Florida Power and Light	Phone	In Favor
Tina Burnett	The Boeing Company		In Favor (NB)
SERVICES SEGMENT		**PRESENT**	**VOTE**
Lisa Simpkins	Constellation Energy Commodities Group	Phone	In Favor
Leigh Spangler	Latitude Technologies	Phone	In Favor
Jim Buccigross	8760 Inc.	Phone	In Favor
Keith Sappenfield	EnCana Marketing (USA) Inc.	Phone	In Favor

WHOLESALE ELECTRIC QUADRANT EXECUTIVE COMMITTEE				
		SUBSEGMENT	PRESENT	VOTE
TRANSMISSION SEGMENT				
Patrick McGovern	Georgia Transmission Corporation	Muni/Coop	Phone	In Favor
Chuck Feagans (for W. Weathers)	Salt River Project	Fed/State/Prov	Phone	In Favor
JT Wood (for D. McGee)	Southern Company Services	IOU	Phone	
Ed Davis	Entergy Services, Inc.	IOU	Phone	In Favor
Marcie Otondo (for M. Hackey)	Arizona Public Service	at large	Phone	In Favor
Bob Harshbarger	Puget Sound Energy	at large		In Favor (NB)
Michelle Mizumori	WECC	at large		In Favor (NB)
GENERATION SEGMENT			**PRESENT**	**VOTE**
William J. Gallagher	Vermont Public Power Supply Authority	Muni/Coop	Phone	In Favor
Kathy York	Tennessee Valley Authority	Fed/State/Prov.	Phone	In Favor
John Ciza	Southern Company Services	IOU		In Favor (NB)
Alan Johnson	NRG Energy	Merchant	Phone	In Favor
Trent Carlson	RRI Energy Services	at large		In Favor (NB)
Shah Hossain	Westar Energy	at large		In Favor (NB)
MARKETERS/BROKERS SEGMENT			**PRESENT**	**VOTE**
Chris Norton	American Municipal Power	Muni/Coop	Phone	In Favor
Belinda Thornton	Tennessee Valley Authority	Fed/State/Prov.		In Favor (NB)

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WHOLESALE GAS QUADRANT EXECUTIVE COMMITTEE				
			PRESENT	VOTE
Richard Lehman	Salt River Project	at large		
John Apperson	PacifiCorp Energy	IOU		In Favor (NB)
Roy True	ACES Power Marketing	at large		In Favor (NB)
Barry Green	Electric Power Supply Association	at large	Phone	In Favor
DISTRIBUTION/LOAD SERVING ENTITIES (LSE) SEGMENT		**SUBSEGMENT:**	**PRESENT**	**VOTE**
Ray Phillips	Alabama Municipal Electric Authority	Muni/Coop	Phone	In Favor
Alan Pritchard	Duke Energy Corporation	IOU	Phone	In Favor
Rufus Gladney	Consumers Energy Company	IOU		
Robert Martinko	FirstEnergy Service Company	at large	Phone	In Favor
Syd Berwager	Bonneville Power Administration	Other		In Favor (NB)
Andy Rodriquez	NERC	at large		In Favor (NB)
END USERS SEGMENT			**PRESENT**	**VOTE**
Aaron Breidenbaugh	EnerNOC	at large		
Lou Ann Westerfield	NARUC	Regulator	Phone	In Favor
Christopher Kotting	Public Utility Commission of Ohio	at large	Phone	In Favor
Paul Sorenson	Open Access Technology International, Inc.	at large		In Favor (NB)
INDEPENDENT GRID OPERATORS/PLANNERS SEGMENT			**PRESENT**	**VOTE**
Cathy Wesley (for T. Bowe)	PJM Interconnection		Phone	In Favor
Jim Castle	New York Independent System Operator			In Favor (NB)
Matt Goldberg	ISO New England		Phone	In Favor
Nancy Traweek	California ISO			In Favor (NB)
Joel Mickey	ERCOT			In Favor (NB)
Ed Skiba	Midwest Independent Transmission System Operator		Phone	In Favor
Charles Yeung	Southwest Power Pool			In Favor (NB)
TECHNOLOGY AND SERVICES SEGMENT			**PRESENT**	**VOTE**
Jim Buccigross	8760, Inc.		Phone	

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Voting Results for Supermajority Votes

	Votes Possible	Votes Cast	Percentage Affirmative Votes Cast	Reaching the 40% Segment Affirmative Vote Threshold?	Motion Passing
WGQ SUPERMAJORITY VOTE	WGQ - 24	22 affirmative 0 abstention 0 opposed	99.6%	Y	Passes Super Majority Vote
	Votes Possible	**Votes Cast**	**Percentage Affirmative Votes Cast**	**Reaching the 40% Segment Affirmative Vote Threshold?**	**Motion Passing**
WEQ SUPERMAJORITY VOTE	WEQ - 10	32 affirmative 0 abstention 0 opposed	86.4%	Y	Passes Super Majority Vote

Notes:

- The WGQ EC passed the modified recommendation with all segments reaching the 40% threshold and the 67% quadrant threshold. The WGQ EC had 22 out of a possible 24 votes (92%) in favor. No negative votes were cast.
- The WEQ EC passed the modified recommendation with all fully populated segments reaching the 40% threshold and the 67% quadrant threshold. The WEQ EC had 32 out of a possible 37 votes (86%) in favor. No negative votes were cast.
- In the vote column, a blank indicates that the EC member did not attend, return a ballot prior to the meeting, or return a ballot after the meeting. The designation "NB" indicated that the result was provided via a notational ballot. If Abstain is indicated, it carries the same weight as an Opposed vote in the tally.

6. Other Participant Attendance

Name	Organization
Jonathan Booe	NAESB
Christopher Burden	Williams Gas Pipeline
Greg Campoli	NYISO
James Culliton	NAESB
Marie Knox	Midwest ISO
Dawn Lainez	US Legal
Rae McQuade	NAESB
Sylvia Munson	Sungard
Veronica Thomason	NAESB

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June 16, 2010

TO: NAESB Wholesale Electric Quadrant (WEQ) & Retail Electric Quadrant (REQ) Executive Committees and Interested Industry Participants

FROM: Jonathan Booe, NAESB Staff Attorney

RE: WEQ & REQ Executive Committees Single Topic Conference Call - Draft Minutes

NORTH AMERICAN ENERGY STANDARDS BOARD
WHOLESALE & RETAILELECTRIC QUADRANTS
EXECUTIVE COMMITTEES
SINGLE TOPIC CONFERENCE CALL
Wednesday, June 16, 2010 – 10:00 am to 4:00 pm Mountain
DRAFT MINUTES

1. Welcome

Mr. Precht called the meeting to order and welcomed the Retail Electric Quadrant ("REQ") and Wholesale Electric Quadrant ("WEQ") Executive Committee ("EC") members, alternates and other participants. Mr. Booe provided the anti-trust guidance and called the roll of the REQ and WEQ EC members and alternates. Quorum was established for the REQ EC but not the WEQ EC. The WEQ EC agreed to deem the meeting a working session until quorum can be established. Mr. Skiba asked if Mr. Kotting would be allowed to vote on both the REQ and WEQ recommendations, as he holds a seat in both Quadrants. Ms. McQuade responded that Mr. Kotting will only be allowed to vote in one Quadrant on the joint recommendations but will be allowed to vote on both Priority Action Plan ("PAP") nine recommendations. Mr. Skiba moved to adopt the agenda and Mr. Kotting seconded the motion. The motion passed without opposition.

Mr. Hodges provided a brief overview of the recommendations and noted that the PAP 3 and PAP 4 recommendations were created jointly; however, the PAP 9 recommendations separated to reflect the market structure and initial work products.

2. Retail Electric Quadrant Recommendations

2010 REQ Annual Plan Item 9(a): Ms. Marino made a motion to adopt the recommendation for 2010 Retail Annual Plan Item 9(a) - Requirements Specification for Common Electricity Product and Pricing Definition for NIST PAP 3. Mr. Kotting seconded the motion and offered a friendly amendment to adopt the recommendation incorporating the modifications proposed by the Smart Grid Standards Task Force. Ms. Marino accepted the friendly amendment. Ms. Marino noted that she submitted a set of late comments on the recommendation and presented her comments to the participants. Ms. McQuade noted that Ms. Marino's comments could be categorized as substantive and non-substantive or grammatical and noted that the substantive comments could either be addressed in this meeting or forwarded for consideration in the Smart Grid Standards Task Force phase two effort. Ms. Marino and Mr. Kotting supported acceptance of the grammatical changes and forwarding her other comments on for consideration in phase two.

Mr. Skiba stated that he submitted a set of late comments on the PAP 3 recommendation and presented his proposed modifications. He noted that the purpose of the proposed modifications is to provide a level of consistency across the other recommendations and other NAESB business practices. Ms. McQuade asked Mr. Skiba to highlight the portions of the recommendation, as proposed, that would be included in the published standards. Mr. Skiba stated that portions of the Executive Summary he proposed be moved to the Summary section of the recommendation would be included in the final action but not the published standard. He also noted that sections he proposed to move to section 4.e of the recommendation would not be part of the published standards. Mr. Kotting stated that the sentence concerning the electricity rate design process should not be struck from the recommendation as proposed in Mr. Skiba's comments. Ms. Marino supported Mr. Kotting's statement. After discussion, the REQ EC supported

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addressing Mr. Skiba's substantive comments in the phase two effort with Ms. Marino's substantive comments. Mr. Kotting made a friendly amendment to adopt Mr. Skiba's proposed grammatical changes and to consider the substantive comments in the Smart Grid Standards Task Force phase two effort. Ms. Marino accepted the friendly amendment. Mr. Winkler confirmed that the motion precludes the adoption of Mr. Skiba's proposed shifting of sections of the recommendation. Mr. Precht confirmed. Mr. Coe noted that he supports Mr. Skiba's proposed modifications to Appendix A of the recommendation. The REQ EC voted on the motion and the motion passed a super majority balanced vote. [Vote 1].

2010 Retail Annual Plan Item 9(b): Mr. Kotting made a motion to adopt the recommendation for 2010 Retail Annual Plan Item 9(b) - Requirements Specifications for Common Scheduling Mechanism for Energy Transactions incorporating the modifications proposed by the Smart Grid Standards Task Force. Mr. Miyagi seconded the motion. Mr. Precht noted that Mr. Skiba provided late comments on the PAP 4 recommendation and asked Mr. Skiba if the comments could be separated into substantive and non-substantive or grammatical categories. Mr. Skiba replied affirmatively and Ms. Marino made a friendly amendment to incorporate the non-substantive comments, similar to those incorporated into the PAP 3 recommendation, into the PAP 4 recommendation. Mr. Kotting and Mr. Miyagi accepted the friendly amendment. The REQ EC voted on the motion and the motion passed a super majority balanced vote. [Vote 2].

2010 Retail Annual Plan Item 9(c): Mr. Kotting made a motion to adopt the recommendation for 2010 Retail Annual Plan Item 9(c) - Requirements Specifications for Retail Standard DR Signals for NIST PAP09 incorporating the modifications proposed by the Smart Grid Standards Task Force. Mr. Jesensky seconded the motion. Ms. Marino made a friendly amendment to incorporate the non-substantive comments proposed by Mr. Skiba, similar to those incorporated into the PAP 3 and 4 recommendations, into the PAP 9 recommendation. Mr. Kotting and Mr. Jesensky accepted the friendly amendment. The REQ EC voted on the motion and the motion passed a super majority balanced vote. [Vote 3].

3. Wholesale Electric Quadrant Recommendations

Ms. York noted that the WEQ EC had established quorum and could now take action on the recommendations.

2010 WEQ Annual Plan Item 6(a): Mr. Winkler made a motion to adopt the recommendation for 2010 WEQ Annual Plan Item 6(a) - Requirements Specification for Common Electricity Product and Pricing Definition for NIST PAP 3. Mr. True seconded the motion. Mr. Gallagher offered a friendly amendment to incorporate the modifications proposed by the Smart Grid Standards Task Force late comments. Mr. Winkler and Mr. True accepted the amendment. Mr. Skiba reviewed his proposed modifications and offered a friendly amendment to accept the non-substantive or grammatical corrections proposed in late comments as adopted by the REQ EC. Mr. Winkler and Mr. True accepted the amendment. Mr. Skiba offered a friendly amendment to accept the proposed modification to the definition of Load Serving Entity ("LSE") contained in his late set of comments in an effort to remain consistent with the definition previously adopted by the WEQ EC and contained in the WEQ glossary. Mr. Winkler and Mr. True accepted the amendment. Ms. McQuade asked if the Task Force considered the current definition for LSE and intentionally recommended the modification. Ms. Pratt noted that the Task Force made an effort to ensure that the definitions in the recommendation were consistent with those in the NAESB glossary and that the definition for LSE must have been unintentionally omitted. Mr. Kotting and Mr. Skiba supported Ms. Pratt's summation.

Next, Mr. Skiba offered an amendment to remove 016-1.2.2 Product and Pricing Attributes Considered for Use Cases and include the section in the supporting documentation so that the recommendation remains consistent with the recommendations for PAPs 4 and 9. He stated that the Task Force removed the data requirements sections from the PAP 9 recommendations and included them in the supporting documentation and that the PAP 4 data requirements sections were removed from the recommendation and not included elsewhere. Ms. York confirmed that the proposed action was not taken by the REQ EC. Ms. Pratt stated that she recommended that the data requirements be removed from the recommendations during the Task Force's consideration so that they could be more fully developed as part of the phase two effort. The WEQ EC took a simple majority vote to accept the amendment and the amendment passed without opposition. Mr. Skiba stated the remainder of his comments would

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not be considered friendly amendments and offered the remainder of his proposed modifications en banc as an amendment to the main motion. Mr. Gallagher asked if there is a second to Mr. Skiba's motion to amend. Ms. Wesley seconded Mr. Skiba's motion to amend. Mr. Winkler stated that he considered the portions of the standards Mr. Skiba purposes to shift to the supporting documentation as informational and therefore supports the amendment. Ms. Crockett noted that Mr. Skiba's proposed modifications are extensive and that she would feel more comfortable moving the proposed modifications into the phase two effort as the EC members were only given one night to digest the comments. Which span a considerable number of redlined pages. Ms. York recommended that the participants take a roll call vote on the amendment. The amendment passed a simple majority roll call vote. [Vote 4].

The WEQ EC voted on the motion as amended; however, enough votes were not garnered to make a determination. [Vote 5]. The motion was distributed for a notational ballot period.

2010 WEQ Annual Plan Item 6(b): Mr. Winkler made a motion to adopt the recommendation for 2010 Wholesale Annual Plan Item 6(b) - Requirements Specifications for Common Scheduling Mechanism for Energy Transactions. Ms. Wesley seconded the motion. Mr. Gallagher offered a friendly amendment to incorporate the modifications proposed by the Smart Grid Standards Task Force late comments. Mr. Winkler and Ms. Wesley accepted the amendment. Mr. Skiba offered a friendly amendment to accept the non-substantive or grammatical corrections proposed in late comments as adopted by the REQ EC. Mr. Winkler and Ms. Wesley accepted the amendment. Mr. Skiba offered an amendment to move the Executive Summary contained in the recommended standards into section three of the recommendation. Mr. Winkler confirmed that this is the same action that was taken with respect to the PAP 3 recommendation. Mr. True seconded Mr. Skiba's proposed amendment. The amendment passed a simple majority vote of the WEQ EC. [Vote 6]. Mr. Winkler asked if the Task Force would be aware that these modifications were made and that they can be reviewed as part of the phase two effort. Mr. Skiba stated that the WEQ Annual Plan can be modified to ensure that the resulting final actions are considered and reviewed as part of the phase two effort. Ms. McQuade and Mr. Gallagher noted that the Annual Plan would not have to be changed as the action can be taken as a directive from the WEQ EC. The WEQ EC voted on the motion as amended; however, enough votes were not garnered to make a determination [Vote 7]. The motion will be distributed for a notational ballot period.

2010 WEQ Annual Plan Item 6(c): Mr. Winkler made a motion to adopt the recommendation for 2010 WEQ Annual Plan Item 6(c) - Requirements Specifications for Retail Standard DR Signals for NIST PAP09. Ms. Wesley seconded the motion. Mr. Gallagher offered a friendly amendment to incorporate the modifications proposed by the Smart Grid Standards Task Force late comments. Mr. Winkler and Ms. Wesley accepted the amendment. Mr. Skiba offered a friendly amendment to accept the non-substantive or grammatical corrections proposed in late comments as adopted by the REQ EC and to add the term "use" to a sentence in the scope section of the recommendation. Mr. Winkler and Ms. Wesley accepted the amendment. Mr. Skiba offered an amendment to move the Executive Summary contained in the recommended standards into section three of the recommendation. Mr. True seconded Mr. Skiba's proposed amendment. The amendment passed a simple majority vote. [Vote 8] The WEQ EC voted on the motion as amended; however, enough votes were not garnered to make a determination. [Vote 9]. The motion will be distributed for a notational ballot period.

4. Other Business

Ms. York noted that the Task Force should be made aware that the WEQ EC has directed them to review the items noted above as part of the phase two effort. She also noted that NAESB has received new assignments through PAP 10 from NIST and that the WEQ EC membership should participate as the issues will be in font of them for vote this year.

5. Adjourn

Mr. True moved, seconded by Mr. Skiba, to adjourn the meeting at 3:15 PM Central.

6. Voting Record and Attendance

NORTH AMERICAN ENERGY STANDARDS BOARD
REQ/WEQ EXECUTIVE COMMITTEE
Voting Record from June 16, 2010

VOTES: S – indicates an affirmative vote, O – indicates a vote in opposition, A – indicates an abstention, NB – indicates a vote cast through notational ballot and a blank cell indicates that the voter did not vote. The motions fro which the voting results are detailed below are noted in the minutes.

V1	V2	V3	V4[1]	V5	V6[2]	V7	V8[3]	V9			
									WEQ TRANSMISSION SEGMENT	SUBSEGMENT:	WEQ TRANSMISSION SEGMENT
			S	A	S	S	S	S	Patrick McGovern	Georgia Transmission Corporation	Muni/Coop
			O	S	S	S	S	S	Chuck Feagans alt. for Wendy Weathers	Tennessee Valley Authority	Fed/State/Prov.
			O	S	S	S	S	S	Daryl McGee	Southern Company Services	IOU
									Edward Davis	Entergy Services, Inc.	IOU
				S (NB)		S (NB)		S (NB)	Marceline Otondo	Arizona Public Service	at large
				S (NB)		S (NB)		S (NB)	Bob Harshbarger	Puget Sound Energy	at large
			S	S	S	S	S	S	Hasnah Mat-Amin for Michelle Mizumori	Western Electricity Coordinating Council	At-Large
									WEQ GENERATION SEGMENT		
			O	S	S	S	S	S	William J. Gallagher	Vermont Public Power Supply Authority	Muni/Coop
			O	S	S	S	S	S	Kathy York	Tennessee Valley Authority	Fed/State/Prov.
			O	S	S	S	S	S	John Ciza	Southern Company Services	IOU
				A		A		A	Alan Johnson	NRG Energy, Inc.	Merchant
			S	S	S	S		S (NB)	Trent Carlson	RRI Energy Services, Inc.	at large

[1] V4 is a simple majority vote that passed for the WEQ EC.
[2] V6 is a simple majority vote that passed for the WEQ EC.
[3] V8 is a simple majority vote that passed for the WEQ EC.

WEQ EC Materials Assembled for 8-17-10
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NORTH AMERICAN ENERGY STANDARDS BOARD

REQ/WEQ EXECUTIVE COMMITTEE

Voting Record from June 16, 2010

VOTES											
S – indicates an affirmative vote, O – indicates a vote in opposition, A – indicates an abstention, NB – indicates a vote cast through notational ballot and a blank cell indicates that the voter did not vote. The motions fro which the voting results are detailed below are noted in the minutes.											
V1	V2	V3	V4[1]	V5	V6[2]	V7	V8[3]	V9			
				S (NB)		S (NB)		S (NB)	Shah Hossain	Westar Energy, Inc.	at large
									WEQ MARKETERS/BROKERS SEGMENT		
				S (NB)		S (NB)		S (NB)	Chris Norton	American Municipal Power, Inc.	Muni/Coop
			O	S	S	S	S	S	Valerie Crockett alt. for B. Thornton	Tennessee Valley Authority	Fed/State/Prov.
									Richard Lehman	Salt River Project	at large
									John Apperson	PacifiCorp Energy	IOU
			O	S	S	S	S	S	Roy True	ACES Power Marketing	at large
			S	S	S	S	S	S	Barry Green	Electric Power Supply Association (EPSA)	at large
									WEQ DISTRIBUTION/LOAD SERVING ENTITIES (LSE) SEGMENT		SUBSEGMENT:
				S (NB)		S (NB)		S (NB)	Ray Phillips	Alabama Municipal Electric Authority	Muni/Coop
									Alan Pritchard	Duke Energy Corporation	IOU
									Rufus D. Gladney	Consumers Energy Company	IOU
			S	S	S	S	S	S	Robert Martinko	FirstEnergy Service Company	at large
									Syd Berwager	Bonneville Power Administration	Other
									Andy Rodriquez	NERC	At-Large
									WEQ END USERS SEGMENT		
									Aaron Breidenbaugh	EnerNOC, Inc.	at large
				O (NB)		O (NB)		O (NB)	Lou Ann Westerfield	Idaho Public Utilities Commission, rep. National Association of Regulatory Utility Commissioners	Regulator
							S	S	Christopher Kotting	Public Utility Commission of Ohio	at large
									Paul Sorenson	Open Access Technology International, Inc.	At-Large

WEQ EC Materials Assembled for 8-17-10
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North American Energy Standards Board

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NORTH AMERICAN ENERGY STANDARDS BOARD

REQ/WEQ EXECUTIVE COMMITTEE

Voting Record from June 16, 2010

VOTES										
		S – indicates an affirmative vote, O – indicates a vote in opposition, A – indicates an abstention, NB – indicates a vote cast through notational ballot and a blank cell indicates that the voter did not vote. The motions fro which the voting results are detailed below are noted in the minutes.								
V1	V2	V3	V4[1]	V5	V6[2]	V7	V8[3]	V9		
									WEQ INDEPENDENT GRID OPERATORS/PLANNERS SEGMENT	
			S	S	S	S	S	S	Cathy Wesley alt. for Thomas Bowe	PJM Interconnection
				S (NB)		S (NB)		S (NB)	Jim Castle	New York Independent System Operator, Inc.
			S	S	S	S	S	S	Eric Winkler alt. for Matt Goldberg	ISO New England, Inc.
				S (NB)		S (NB)		S (NB)	Nancy Traweek	California ISO
			S	S	S	S	S	S	Paul Wattles alt. for J. Mickey	Electric Reliability Council of Texas
			S	S	S	S	S	S	Ed Skiba	Midwest ISO
			S	S	S	S	S	S	Jimmy Wolmack alt. for Charles Yeung	Southwest Power Pool
									WEQ TECHNOLOGY AND SERVICES	
			O	S	S	S		S	Jim Buccigross	8760, INC
									REQ SERVICE PROVIDERS/SUPPLIERS SEGMENT	
									Bill Barkas	Dominion Retail, Inc.
									Jim Minneman	PPL Solutions, LLC
S	S	S							Jennifer Teel	ista
S	S	S							Susan Munson	Electric Reliability Council of texas
									REQ UTILITIES SEGMENT	
S	S	S							Phil Precht	Baltimore Gas and Electric Company
A	A	A							Patrick Eynon	Ameren Services
S	S	S							Judy Ray	Alabama Power Company

WEQ EC Materials Assembled for 8-17-10
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NORTH AMERICAN ENERGY STANDARDS BOARD

REQ/WEQ EXECUTIVE COMMITTEE

Voting Record from June 16, 2010

VOTES										
S – indicates an affirmative vote, O – indicates a vote in opposition, A – indicates an abstention, NB – indicates a vote cast through notational ballot and a blank cell indicates that the voter did not vote. The motions fro which the voting results are detailed below are noted in the minutes.										
V1	V2	V3	V4[1]	V5	V6[2]	V7	V8[3]	V9		
S	S	S							Michael J. Jesensky	Dominion Resources Services, Inc.
									END USER/PUBLIC AGENCIES SEGMENT	
S	S	S							Annunciata E. Marino	Pennsylvania Public Utility Commission
S	S	S							Christopher Kotting	Public Utility Commission of Ohio

Voting Results for Supermajority Votes

	Votes Possible	Votes Cast	Percentage Affirmative Votes Cast	Reaching the 40% Segment Affirmative Vote Threshold?	Motion Passing
V1 - SUPERMAJORITY	REQ – 10	7 affirmative 1 abstention 0 opposed	70%	Y	Passes Super Majority Vote
V2 - SUPERMAJORITY	Votes Possible	Votes Cast	Percentage Affirmative Votes Cast	Reaching the 40% Segment Affirmative Vote Threshold?	Motion Passing
	REQ – 10	7 affirmative 1 abstention 0 opposed	70%	Y	Passes Super Majority Vote
V3 - SUPERMAJORITY	Votes Possible	Votes Cast	Percentage Affirmative Votes Cast	Reaching the 40% Segment Affirmative Vote Threshold?	Motion Passing

WEQ EC Materials Assembled for 8-17-10
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Voting Results for Supermajority Votes

	REQ – 10	7 affirmative 1 abstention 0 opposed	70%	Y	Passes Super Majority Vote
V5 - SUPERMAJORITY	Votes Possible	Votes Cast	Percentage Affirmative Votes Cast	Reaching the 40% Segment Affirmative Vote Threshold?	Motion Passing
	WEQ – 37	24 affirmative 2 abstention 1 opposed	65%	Y	Fails Super Majority Vote
V7- SUPERMAJORITY	Votes Possible	Votes Cast	Percentage Affirmative Votes Cast	Reaching the 40% Segment Affirmative Vote Threshold?	Motion Passing
	WEQ – 37	25 affirmative 1 abstention 1 opposed	67.5%	Y	Passes Super Majority Vote
V9 - SUPERMAJORITY	Votes Possible	Votes Cast	Percentage Affirmative Votes Cast	Reaching the 40% Segment Affirmative Vote Threshold?	Motion Passing
	WEQ – 37	25 affirmative 1 abstention 1 opposed	67.5%	Y	Passes Super Majority Vote

WEQ EC Materials Assembled for 8-17-10
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7. Other Participants

Participant	Organization
Jonathan Booe	NAESB
Ernie Cardone	New York ISO
Scott Coe	UISOL
Brent Hodges	Reliant
Rae McQuade	NAESB
Ed Murrell	FERC
Josh Phillips	Southwest Power Pool
Donna Pratt	New York ISO
Peter Sergejewich	Independent Electricity System Operator
Veronica Thomason	NAESB
Jill Vaughn	Court Reporter

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August 1, 2010

TO: NAESB Wholesale Electric Quadrant Executive Committee and Interested Industry Participants

FROM: Cory Galik Cummings, NAESB Staff Attorney

RE: Wholesale Electric Quadrant Single Topic Executive Committee Meeting Draft Minutes

NORTH AMERICAN ENERGY STANDARDS BOARD
WHOLESALE ELECTRIC QUADRANT
SINGLE TOPIC EXECUTIVE COMMITTEE MEETING
Wednesday, July 7, 2010 – 12:00 pm to 4:00 pm Central
DRAFT MINUTES

1. Welcome

Ms. York called the meeting to order and welcomed the Wholesale Electric Quadrant ("WEQ") Executive Committee ("EC") members, alternates and other participants. Ms. Cummings gave the antitrust guidance and called the roll of the WEQ EC members and alternates. Quorum was established. Mr. Winkler moved, seconded by Mr. Skiba, to adopt the agenda. The motion passed unanimously.

2. Review of Board Resolution

Ms. York read the NAESB Board of Directors four-part resolution. Mr. Winkler asked if the three-day notice applied to today's meeting. Ms. York answered that it would apply. If someone brought comments to today's meeting, the EC would take a simple majority vote to determine whether to consider them. The three-day comment period applies to written comments submitted for all future EC meetings. This allows the EC to contemplate the comments, as long as there is a compelling reason for the delay in submitting them.

Mr. Davis raised a question about friendly amendments. Ms. McQuade answered that friendly amendments, when proposed, were not intended to change the intent of the main motion and should not be substantive. Friendly amendments can be used but in reference to Robert's Rules, they are silent on the use of friendly amendments.

Mr. Davis expressed concern that the tone of resolution was for the EC to accept the recommendation presented by the subcommittee. Mr. Boswell answered that the board intends for the quadrants to be able to discuss the issues proposed to them by the subcommittees and task forces. The resolution will allow the EC to have time to review the comments prior to the meeting. The EC may waive the three-day rule, if there is a compelling reason, via a simple majority vote.

Mr. Winkler expressed concern with the three-day rule because it may set up a precedent for participants to bring up difficult issues through oral comments rather than submitting them through written formal comments. He asked to table this discussion and readdress it at the board to allow participants to explain how this condition will affect the way the EC operates. Ms. McQuade noted that process was the purview of the board. If Mr. Winkler wants to board to reconsider the resolution, she suggested that he work through his board members to take the needed actions to change the resolutions.

3. Review of Procedures to Rescind/Reconsider

Ms. McQuade stated that there is a discrepancy between Modern Parliamentary Procedure and Robert's Rules in the procedure to rescind a motion. Mr. Boswell stated that Robert's Rules of Procedure is the correct process to use in this situation, which allows a motion to be rescinded as long as it has not been executed in an irreversible manner (for example, by sending the recommendation out for ratification). Because the recommendations were still reversible, the motion could be rescinded with a simple majority vote. The retail recommendation could not be rescinded because those recommendations have been sent out for ratification. Mr. Winkler expressed concern with only one quadrant's ability to rescind its motion. The WEQ is being directed by the board to reconsider these

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recommendations and conform them to the retail standards. He suggested that both wholesale and retail work together to reconcile the standards that were drafted to be identical. Mr. Skiba asked for clarification that in the future if there is a discrepancy between Modern Parliamentary Procedures and Robert's Rules does Robert's Rules always take precedence. Ms. McQuade confirmed Robert's Rules take precedence. It was noted that the NAESB governance documents take precedence over Robert's Rules.

Mr. Gallagher moved, seconded by Mr. Buccigross, to rescind PAP04 and PAP09 and to reconsider all three recommendations (PAP03, PAP04 and PAP09). The motion passed a simple majority vote.

The EC began its review of the recommendations from the recommendation containing the task force's late comments.

4. Reconsideration of 2010 WEQ Annual Plan Item 6(a) Requirements Specifications for Common Electricity Product and Pricing Definition – for NIST PAP03

Mr. Skiba moved that the WEQ not incorporate the LSE definition submitted by the Smart Grid Subcommittee and keep the existing definition ratified by members in first quarter 2010, such that it matches the NERC definition for LSE. Mr. Hossain seconded the motion. The motion passed a simple majority vote.

Mr. True moved, seconded by Mr. Skiba, to approve the PAP03 recommendation. The EC began its review based on the recommendation with the subcommittee redlines and Ms. Marino's and Mr. Skiba's grammatical changes.

Mr. Winkler made an amendment to the main motion to move all of WEQ-016-1.2 to Appendix A and determine market applicability in Phase 2. The purpose of the amendment was that specific tariff rate types included in PAP03 for clarification purposes caused concern within the wholesale quadrant because they are unique to retail tariffs. Mr. Kotting stated that the retail quadrant had the same discussion and decided to leave the information in the recommendation. It provides context for the other use cases, which are the actual product of the standards. In addition, there is no requirement to use any of the identifiers, as they are intended to be samples of the pricing product attributes that were considered. Even if it did become part of a data table, its existence does not make it mandatory. Mr. Skiba noted that this motion was different from the motion at the previous meeting. By moving these tables to an appendix, it will still be included in the standards when they are published. Mr. Winkler added that he was advising the work group in Phase 2 to discuss the applicability of these tables. Mr. Kotting added that the language at the start of WEQ-016-1.2 was added to clarify that those sections were illustrative. Mr. Winkler withdrew his amendment based on the discussion.

Mr. True made an amendment to copy the last sentence of WEQ-016-1.2 to the Introduction section of WEQ-016 as part of the purpose and remove the word "intended" from both sentences. Mr. Hossain seconded the amendment. Mr. Castle stated that if FERC adopts the standards, the industry is compelled to follow them. He was worried about having a qualifier in a purpose statement because it could lead to differing interpretations. If this is a standard, it should have standard-grade language; if it is to be informative, it should be moved to a section designated for information purposes only. The motion passed a simple majority vote.

Next, Mr. Davis made an amendment to move section WEQ-016-1.2 to section 4e of supporting documentation. This section consisted of considerations used to develop the use cases; they were not standards. They were supporting documentation for the creation of standards. Ms. McQuade noted that section 4 of the recommendation is material that is meant to be provided to the EC and members for their consideration as they vote on the standards. That section is not carried forward to final actions and is not supported or published as part of the standards. Mr. Davis stated that he did not view this particular section to be standards language. The motion failed a simple majority vote.

Mr. Gallagher made an amendment to direct the Smart Grid Subcommittee to review the Executive Summary and Introduction and to reconsider language that may not be appropriate for business practices long-term in their phase 2 work. Ms. Westerfield seconded the motions. The motion passed a simple majority vote.

The EC voted on the recommendation with the above amendments. The vote garnered 21 votes in favor, but 25 votes were necessary for a super majority vote. The motion will go out for a notational ballot.

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5. Reconsideration of 2010 WEQ Annual Plan Item 6(b) – Requirements Specifications for Common Scheduling Mechanism for Energy Transactions – for NIST PAP04

Mr. True moved, seconded by Mr. Davis, to approve the PAP04 recommendation.

Mr. Winkler made an amendment to accept Ms. Marino's and Mr. Skiba's grammatical changes to the recommendation. Mr. Hossain seconded the amendment. The motion passed unanimously.

Mr. Skiba made an amendment to copy the last sentence of WEQ-017-2.1 to the Introduction section of WEQ-017: to remove the word "intended" from both sentences and to direct the Smart Grid Standards Subcommittee to review the Executive Summary and Introduction and reconsider language that may not be appropriate for business practices long-term in their Phase 2 work. Ms. Westerfield seconded the amendment. Ms. Otondo asked about the type of scheduling referred to in this recommendation. Ms. McQuade answered that the NIST proposed standard for scheduling relates to scheduling events and is not the same as e-tag scheduling. Mr. Winkler noted that it was removed during the June 16 EC meeting because of the ambiguity involved. To keep this kind of ambiguity in the standards may create requirements that would be unenforceable. Ms. Westerfield asked Mr. Winkler if the amendment directing the Phase 2 work to review the executive summary and introduction address his concern. Mr. Winkler answered that, short of removing the language, it is the right direction to take. Ms. McQuade encouraged representation in the subcommittee to express these types of concerns. The motion passed a simple majority vote.

The EC voted on the recommendation with the above amendments. The vote garnered 21 votes in support, but 25 votes were necessary for a super majority vote. The motion will go out for a notational ballot.

6. Reconsideration of 2010 WEQ Annual Plan Item 6 (c) – Requirements Specifications for Wholesale Standard DR Signals – for NIST PAP09

Mr. True moved, seconded by Ms. Crockett, to approve the PAP09 recommendation.

Mr. Johnson made an amendment to accept Ms. Marino's and Mr. Skiba's grammatical changes. Ms. Westerfield seconded the amendment. The motion unanimously passed a simple majority vote.

Mr. Skiba made a two part amendment to copy the last sentence of WEQ-018-1.3 to the Introduction section of WEQ-018 and remove the word "intended" from both sentences and Amendment to direct the Smart Grid Standards Subcommittee to review the Executive Summary and Introduction to reconsider language that may not be appropriate for business practices long-term in their Phase 2 work. Ms. Westerfield seconded the amendment. The motion passed a simple majority vote unanimously.

The EC voted on the recommendation with the above amendments. The vote garnered 22 votes in support, but 25 votes were necessary for a super majority vote. The motion will go out for a notational ballot.

Mr. Winkler made a motion to amend the definition of LSE in section 4 of PAP09 and to PAP04 to match the NAESB ratified definition of LSE. Mr. Hossain seconded the motion. The motion unanimously passed a simple majority vote.

7. Adjourn

Mr. True moved, seconded by Ms. Crockett, to adjourn the meeting at 3:43 PM Central.

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10. Attendance

NORTH AMERICAN ENERGY STANDARDS BOARD

WEQ EXECUTIVE COMMITTEE

Voting Record from July 7, 2010 and Notational Ballot due July 16, 2010

Motions can be found following the voting record. S – indicates an affirmative vote, O – indicates a vote in opposition, A – indicates an abstention and a blank cell indicates that the voter was not present when the vote was called. NB – indicates the vote was cast via notational ballot

ATTENDANCE	PAP03	MOTION 5	MOTION 7	TRANSMISSION SEGMENT		SUBSEGMENT
Phone	S	S	S	Patrick McGovern	Georgia Transmission Corporation	Muni/Coop
				Wendy Weathers	Tennessee Valley Authority	Fed/State/Prov.
				Daryl McGee	Southern Company Services	IOU
In Person	S	S	S	Edward Davis	Entergy Services, Inc.	IOU
Phone	S	S	S	Marceline Otondo	Arizona Public Service	at large
	S (NB)	S (NB)	S (NB)	Bob Harshbarger	Puget Sound Energy	at large
Phone	S	S	S	Hasnah Mat-Amin for Michelle Mizumori	Western Electricity Coordinating Council	At-Large
				GENERATION SEGMENT		
Phone	S	S	S	William J. Gallagher	Vermont Public Power Supply Authority	Muni/Coop
In Person	S	S	S	Kathy York	Tennessee Valley Authority	Fed/State/Prov.
	S	S	S	John Ciza	Southern Company Services	IOU
	S	S	S	Alan Johnson	NRG Energy, Inc.	Merchant
	S (NB)	S (NB)	S (NB)	Trent Carlson	RRI Energy Services, Inc.	at large
In Person	S	S	S	Shah Hossain	Westar Energy, Inc.	at large
				MARKETERS/BROKERS SEGMENT		SUBSEGMENT
Phone	S	S	S (NB)	Chris Norton	American Municipal Power, Inc.	Muni/Coop
In Person	S	S	S	Valerie Crockett alt. for B. Thornton	Tennessee Valley Authority	Fed/State/Prov.
				Richard Lehman	Salt River Project	at large
				John Apperson	PacifiCorp Energy	IOU
In Person	S	S	S	Roy True	ACES Power Marketing	at large
	A (NB)	A (NB)	A (NB)	Barry Green	Electric Power Supply Association (EPSA)	at large
				DISTRIBUTION/LOAD SERVING ENTITIES (LSE) SEGMENT		SUBSEGMENT:
Phone	S	S	S	Ray Phillips	Alabama Municipal Electric Authority	Muni/Coop
				Alan Pritchard	Duke Energy Corporation	IOU
				Rufus D. Gladney	Consumers Energy Company	IOU
	S (NB)	S (NB)	S (NB)	Robert Martinko	FirstEnergy Service Company	at large
				Syd Berwager	Bonneville Power Administration	Other
				Andy Rodriquez	NERC	At-Large
				END USERS SEGMENT		SUBSEGMENT:
	S (NB)	S (NB)	S (NB)	Aaron Breidenbaugh	EnerNOC, Inc.	at large

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Phone	S	S	S	Lou Ann Westerfield	Idaho Public Utilities Commission, rep. National Association of Regulatory Utility Commissioners	Regulator
Phone			S	Christopher Kotting	Public Utility Commission of Ohio	at large
				Paul Sorenson	Open Access Technology International, Inc.	At-Large
				INDEPENDENT GRID OPERATORS/PLANNERS SEGMENT		
Phone	S	S	S	Dean Hartung alt. for Thomas Bowe	PJM Interconnection	
Phone	S	S	S	Jim Castle	New York Independent System Operator, Inc.	
In Person	S	S	S	Eric Winkler alt. for Matt Goldberg	ISO New England, Inc.	
In Person	S	S	S	Heather Sanders alt. for Nancy Traweek	California ISO	
				Joel Mickey	Electric Reliability Council of Texas	
In Person	S	S	S	Ed Skiba	Midwest ISO	
Phone	S	S	S	Charles Yeung	Southwest Power Pool	
				TECHNOLOGY AND SERVICES		
Phone	S	S	S	Jim Buccigross	8760, INC	

Total	Votes Possible	Votes Cast PAP03	PAP04	PAP09	PERCENTAGE AFFIRMATIVE VOTES CAST			REACHING THE 40% SEGMENT AFFIRMATIVE VOTE THRESHOLD?			MOTION PASSING		
Total	37	25 affirmative 1 abstention 0 opposed	25 affirmative 1 abstention 0 opposed	26 affirmative 1 abstention 0 opposed	PAP03: 68%	PAP04: 68%	PAP09 70%:	PAP03: Yes	PAP04: Yes	PAP09: Yes	PAP03: Passes super majority vote	PAP04: Passes super majority vote	PAP09: Passes super majority vote

The subsegments noted in the above roster are:

- At-Large -- Regional reliability organizations, regional transmission organizations, consultants, service companies, information services and software companies, law firms, and other such organizations that are not specifically encompassed in the other subsegments for a given segment.
- Competitive Retailer (not available to MUNI/COOP, IOU or IOU affiliates)
- End Use (also in another segment)
- Federal/State/Provincial
- IOU – Investor Owned Utility or IOU Affiliated
- ITC – Independent Transmission Company
- Large Industrials (not in other segments)
- Merchant
- Muni/Coop – Municipals, Cooperatives
- Not IOU Affiliated
- OTHER -- (not available to MUNI/COOP, IOU or IOU affiliates)
- Regulator
- Residential/Commercial
- End Use (Self Generation)

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

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Other Participant Attendance

Participant	Organization	Attendance
Cory Cummings	NAESB	In Person
Michael Desselle	SPP	In Person
Dean Hartung	PJM	Phone
Debbie McKeever	Oncor	In Person
Rae McQuade	NAESB	In Person
Chris Norton	American Municipal Power	Phone
Chris Perez	CAISO	Phone
Veronica Thomason	NAESB	In Person
Nancy Traweek	CAISO	Phone
Jill Vaughn	Court Reporter	In Person

MC10019

North American Energy Standards Board

Request for Minor Correction/Clarification of a NAESB Business Practice Standard, Model Business Practice or Electronic Transaction

Instructions:

1. **Please fill out as much of the requested information as possible. It is mandatory to provide a contact name, phone number and fax number to which questions can be directed. If you have an electronic mailing address, please make that available as well.**

2. **Attach any information you believe is related to the request. The more complete your request is, the less time is required to review it.**

3. **Once completed, send your request to:**

   Rae McQuade
   NAESB, Executive Director
   1301 Fannin, Suite 2350
   Houston, TX 77002

   Phone: 713-356-0060
   Fax: 713-356-0067

   by either mail, fax, or to NAESB's email address, naesb@naesb.org

Once received, the request will be routed to the appropriate subcommittees for review.

MC10019

North American Energy Standards Board

Request for Minor Correction/Clarification of a NAESB Business Practice Standard, Model Business Practice or Electronic Transaction

NAESB Correction/Clarification Procedure

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.

MC10019

North American Energy Standards Board

Request for Minor Correction/Clarification of a NAESB Business Practice Standard, Model Business Practice or Electronic Transaction

Date of Request: __4/12/10_____

1. Submitting Entity & Address:

   Williams Gas Pipeline
   P.O. Box 1396
   Houston, TX, 77056

2. Contact Person, Phone #, Fax #, Electronic Mailing Address:

   Name : Dale Davis
   Title : Industry Standards Consultant
   Phone : 713-215-2396
   E-mail :dale.m.davis@williams.com

3. Version and Standard Number(s) suggested for correction or clarification:
   Minor Correction for NAESB WEQ Standard WEQ-014-A and WGQ Version 1.9 Standard No. 11.4.1 (Implementation Guide for Electronic Tariff Filing)

4. Description of Minor Correction/Clarification including redlined standards corrections:
   Corrections to the WEQ/WGQ Implementation Guide for Electronic Tariff Filing to correspond to modifications made by FERC to its Implementation Guide for Electronic Filing of Parts 35, 154, 284, 300, and 341 Tariff Filings..

   See attached – color coded corresponding to the date of the FERC versions

5. Reason for of Minor Correction/Clarification:
   The Federal Energy Regulatory Commission (FERC) issued the FERC Implementation Guide for Electronic Filing of Parts 35, 154, 284, 300, and 341 Tariff Filings dated January 5, 2009 which essentially is the same as Pages 4 – 44 of the NAESB WEQ/WGQ Implementation Guide for Electronic Tariff Filing. Subsequently, FERC issued 6 revised versions to its implementation guide. The FERC revised version dates are as follows:

   March 27, 2009,
   April 21, 2009,
   May 1, 2009,
   July 28, 2009,
   December 18, 2009, and
   January 21, 2010

   The purpose of this request for minor correction is to make corresponding revisions to the comparable sections of the NAESB WEQ/WGQ Implementation Guide for Electronic Tariff Filing. The remaining portion of the NAESB WEQ/WGQ implementation guide (the Use Cases, Examples and FAQ sections) are unchanged and therefore, those pages are not included in this request.

Implementation Guide for Electronic Tariff Filing

NAESB WGQ Standard 11.4.1 and WEQ Standard WEQ-014

~~April 4, 2008~~to be updated after WEW/WGQ adoption

This grayed section is on the cover of FERC's official implementation guide – **NOT to be part of NAESB WEQ/WGQ implementation guide**– and is provided for ease in identifying the changes corresponding to the FERC revision dates.

1/5/09 – Two sentences on Page 11 of the NAESB Implementation Guide were not included in FERC's original publication
Changes made 3/27/09 – only change to Official cover page
Changes made 4/21/09 – only change was to Official cover page
Changes made 5/1/09
Changes made 7/28/09
Changes made 12/18/09
Changes made 1/21/10
Changes made 6/10/10 – after discussion with FERC confirming changes were made for all representations to show "FERC's Online."

Implementation Guide for Electronic Filing of Parts 35, 154, 284, 300, and 341 Tariff Filings

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Form Approved

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Executive Summary

This implementation guide is for use by entities required to submit tariffs, rate schedules, and service agreements together with supporting documentation to the Federal Energy Regulatory Commission (FERC) pursuant to Title 18 Code of Federal Regulations Parts 35, 154, 284, 300, 341 or other Parts as required by FERC. Filings which historically were submitted in hard copy should be submitted electronically according to the guidelines contained herein. To accomplish this, the components of the previous filings will need to be separated into various pieces of identifying information as defined by the data elements contained herein. These data elements and their accompanying data, are hierarchically organized by the XML schema and when compiled constitute an XML filing package for an electronic Tariff Filing. The XML filing package is then uploaded through a web portal. The following is a guide describing the various processes/mechanisms, data tables, code values/reference tables, and technical specifications used in the submission of such Tariff Filings.

Business Process

Definitions and Standards

Definitions

WGQ 11.2.1 (WEQ-014-0.3) Tariff Submitter is the term used to describe any entity that is required to submit a Tariff Filing.

WGQ 11.2.2 (WEQ-014-0.1) Tariff Filing is the term used to describe a compilation of all document(s), associated data and supporting documents that is required to be filed electronically by a Tariff Submitter pursuant to Title 18 Code of Federal Regulations Parts 35, 154, 284, 300, 341 or other Parts as required by the Federal Energy Regulatory Commission.

WGQ 11.2.3 (WEQ-014-0.2) Tariff Record is the term used to describe the part of a Tariff Filing that consists of the data elements that relate to a sheet, section, or entire tariff, rate schedule, or service agreement that is required to be filed with the Federal Energy Regulatory Commission.

WGQ 11.2.4 (WEQ-014-0.4) Sheet-Based Format and Section-Based Format are the terms used to describe the subdivision into sheets or sections, respectively, of a tariff, rate schedule, or service agreement for purposes of a Tariff Filing.

WGQ 11.2.5 (WEQ-014-0.5) Whole Document Format is the term used to describe a tariff, rate schedule, or service agreement submitted as a single document within a Tariff Record for purposes of a Tariff Filing.

Standards

WGQ 11.3.1 (WEQ-014-1) A Tariff Submitter should electronically submit a Tariff Filing pursuant to the requirements as set forth in NAESB WGQ Standard 11.4.1 / NAESB WEQ Standard WEQ-014.

WGQ 11.3.2 (WEQ-014-2) For the electronic submission of a Tariff Filing, a tariff, rate schedule, or service agreement, and changes thereto, should be structured using one or more of the following methods:

i. Sheet-Based Format,
ii. Section-Based Format, or
iii. Whole Document Format

NAESB WGQ Standard 11.4.1 and NAESB WEQ Standard WEQ-014 Technical Implementation of Business Processes

GENERAL PURPOSE:

The purpose of the eTariff Submission implementation guide is to define the requirements for the submission of a Tariff Filing to the Federal Energy Regulatory Commission (FERC) in an electronic format such that the information can be stored in the FERC eTariff database and in eLibrary. The eTariff Submission dataset is used by an entity (Tariff Submitter) required to electronically submit Tariff Filings to the FERC pursuant to Title 18 Code of Federal Regulations Parts 35, 154, 284, 300, 341 or other Parts as required by FERC.

Set forth below is an explanation of how the eTariff Submission dataset works, including instructions describing the various processes / mechanisms, data tables, code values / reference tables, and technical specifications used in the submission of a Tariff Filing.

The eTariff Submission dataset is used to electronically submit a new, modify an existing, and withdraw or cancel a tariff, rate schedule, or service agreement. Within the FERC eTariff database, each Tariff Submitter will have one or more of its own database(s). A Tariff Submitter's database must contain at least one Tariff Record. A Tariff Record is a single occurrence (row) in a database (similar to a row in a spreadsheet) consisting of multiple data elements that relate to a sheet, section, or entire tariff, rate schedule, or service agreement.

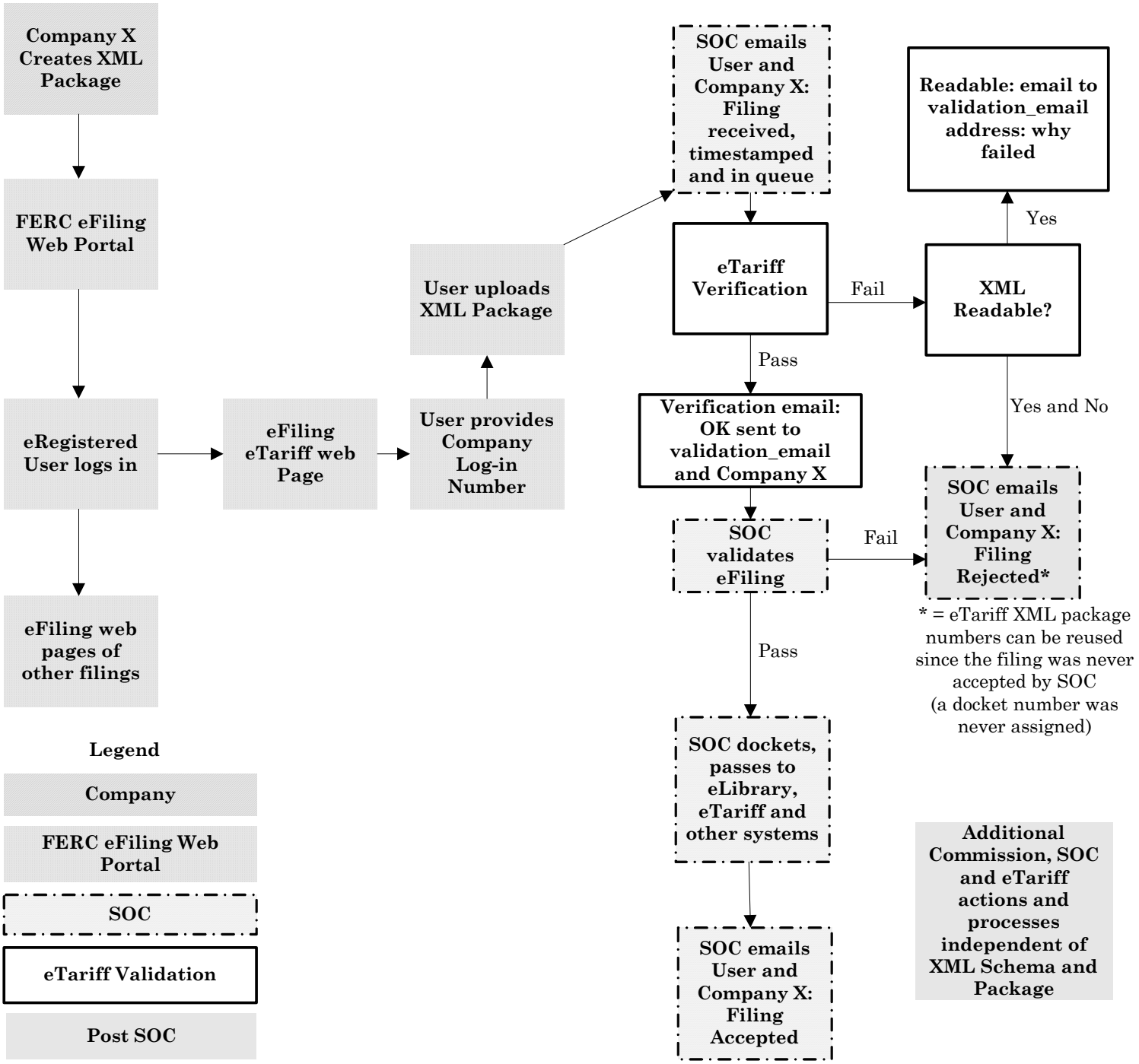
Sheet-Based Format and Section-Based Format describes the subdivision into sheets or sections, respectively, of a tariff, rate schedule, or service agreement for purposes of a Tariff Filing. Whole Document Format describes a tariff, rate schedule, or service agreement submitted as a single document within a Tariff Record for purposes of a Tariff Filing. A single database may contain one or more tariff(s), rate schedule(s), and service agreement(s) that are in different formats. For example, a tariff may be in a Sheet-Based Format or Section-Based Format, while the rate schedules may be in Whole Document Format.

The decision to use Sheet-Based Format, Section-Based Format, or Whole Document Format is left to the Tariff Submitter consistent with FERC regulations.

eTariff Filings Process Flow through the FERC eFiling Web Portal

DIAGRAM

The following is a high level diagram representing the overall process flow from the creation of an eTariff XML filing package by a Tariff Submitter through the Secretary of the Commission (SOC) acceptance or rejection of the filing. Following the diagram is a more detailed description of the submission to FERC and the processing the eTariff XML filing package.



Description of eTariff Filing Process Flow

Disclaimer:

> The following summary represents FERC Staff's best understanding of how the eFiling process, including eTariff, will be designed. As of January 2008 the process has not been built, or fully designed, therefore FERC may change the process.

The FERC's eFiling *Reference Guide,* located at www.ferc.gov, provides a step-by-step set of instructions and expected results for the eFiling process.

- A User is a person authorized to submit a filing on behalf of a Tariff Submitter, as defined in NAESB WGQ Standard 011-2.1 and NAESB WEQ Standard WEQ-014-0.3. The User must be an eRegistered party for eFiling.

- The User will login into the FERC eFiling portal.

- The User, upon successfully logging into the FERC eFiling portal, will be presented with the introductory screen indicating success in accessing the site, and presented with a link to the filing creation part of the site.

- Upon entering the filing creation site, the User will choose to make an eTariff filing.

- The eTariff portal will prompt the User to enter company login information (see Note 1 below). After successfully passing this step, the User will upload an eTariff XML filing package.

- Once the filing is uploaded, the eFiling web page indicates the Tariff Filing has been submitted.

- After the filing has been submitted, SOC will send a Confirmation of Receipt e-mail to the User and to the e-mail address on file with FERC for the company that logged in. This e-mail only acknowledges the receipt of the filing through the eFiling portal, provides a timestamp, and indicates that the filing is placed in the queue to be processed.

- The eTariff XML filing package will be validated programmatically by an eTariff verification process.

    - If the XML is unreadable, an e-mail will be sent by SOC to the User and to the e-mail address on file with FERC for the company logged-in (as a result of the XML being unreadable, the Validation e-mail address contained in the XML package cannot be obtained).

    - If the verification is completed successfully, an e-mail will be sent to the Validation e-mail address provided in the eTariff XML package

and to the e-mail address associated with the Company Identifier (or multiple Company Identifiers, as applicable (see Note 2 below)) for the affected database. This does not mean that the filing has been accepted by SOC.

- o In the event the XML filing package can be read and the Validation e-mail can be obtained, but the data does not pass verification, (an e-mail will be sent to the Validation e-mail address provided in the eTariff XML filing package. This e-mail will provide information about the problems encountered during the verification process.

- FERC's SOC will send an e-mail to the User and the e-mail address on file with FERC for the company logged in. The e-mail will indicate that either the filing:

  - o Has been accepted through SOC's process for filing and docketed (which does not guarantee that other filing deficiencies will not result in rejection later in the review processes within FERC). At this time the filing is passed on to eLibrary, eTariff and other FERC systems; or

  - o Has been rejected and not docketed (see Note 3 below).

Notes:

(1) As of January 2008, the FERC staff does not know whether the company that logs-in will be required to correlate to the company identified by the Company Identifier in the XML package).

(2) As of January 2008, the FERC Staff does not know how joint filings will be handled. A "Joint Filing" refers to a Tariff Filing made on behalf of multiple parties with an identical tariff, rate schedule, or service agreement that is part of a single XML filing package. This is different from a shared tariff, rate schedule, or service agreement that refers to any situation where multiple parties are allowed to add or change the contents of a specific tariff, rate schedule, or service agreement, which is associated with one company_id.

(3) If the filing is rejected at any point prior to receiving a docket number, the filing can be corrected and re-submitted using the same Filing Identifier. Once it is docketed it becomes part of the public record, the Filing Identifier cannot be re-used.

eTariff Submission Dataset Overview:

The eTariff Submission dataset consists of a Data Dictionary that contains three data tables, as more fully explained below. The data tables explain the data elements used when creating a single Tariff Filing. The dataset also includes Code Value Dictionaries used for populating some data elements with standardized code values. Once the Tariff Submitter has completed all of the requirements for the various data elements, the data will need to be compiled into a single XML file pursuant to the XML schema contained in the technical section below, and then zipped for submission to FERC via the eFiling / eTariff web portal.

Data Dictionary Data Tables Overview:

The eTariff Submission Data Dictionary consists of the following three data tables, which are presented in hierarchical order:

Filing Data Table:

This table includes, but is not limited to, the data elements that identify the company making the Tariff Filing, the Type of Filing, and the name of the database that is being created, modified, or cancelled. A single Tariff Filing may only have one set of Filing Data. The data in this table is required for each Tariff Filing.

Attachment Data Table:

This table includes, but is not limited to, the data elements that describe each of the attachments (e.g., transmittal letter, redline and clean versions of a tariff, rate schedule, or service agreement or portions thereof, and supporting materials) regardless of whether they are required or optional for the given Type of Filing, as set forth in the FERC rules and regulations. Currently, all Type of Filings will have at least one attachment and thus at least one set of attachment data elements (e.g., the transmittal letter).

Tariff Record Content Data Table:

This table includes, but is not limited to, the data elements that are used to uniquely identify the individual Tariff Records being submitted, the proposed effective date, the order in which the Tariff Records should be assembled, and the binary data and plain text for each Tariff Record. A single Tariff Filing may have multiple sets of Tariff Record Content Data. Based on the Type of Filing there may or may not be any Tariff Record Content Data.

Data Element Overview:

The data elements are the individual pieces of information or data that make up the Tariff Filing. Each will have a defined format, may be required, conditional or optional and may have restricted values. A data element may contain text or an electronic file (e.g., a .PDF file) as more fully explained in this implementation guide. An explanation of the individual data elements is provided in the data table portion of this implementation guide. In such tables, for each data element, the following information is provided:

- Business Name
- Element Name (this is the corresponding technical (metadata) name used in the XML schema)
- Definition of Data Element
- Field Format (length)
- Valid Values
- Usage / Responsibility and Conditions

~~A Tariff Filing is unique by the combination of the Company Identifier, Filing Identifier, and Tariff Identifier. A Tariff Record is unique by the combination of the Tariff Record Identifier, Option Code, Tariff Record Proposed Effective Date and Record Effective Priority Order.~~

Details of Individual Data Elements:

The following are the individual data elements provided in the same order as they appear in the Data Tables:

Note: For additional information on each data element, e.g., formatting requirements, see the definitions and other requirements as set forth in the data tables.

Filing Data Table Data Elements:

Schema Version:
This is the version of the XML schema used to create the specific Tariff Filing. The Schema Version and the actual schema will be published on the FERC website located at www.ferc.gov. Any changes to the schema will be made through a FERC notice or order.

Company Identifier:
A FERC-designated company identifier code used to define an entity registered with FERC to make Tariff Filings. To acquire a company identifier code, a company should apply at FERC's Online's Company Registration application, located at www.ferc.gov.

Tariff Identifier:
A unique identifier for a Tariff Submitter's database as it pertains to the database being modified by a Tariff Filing. A Tariff Submitter may have more than one active database. A database may contain one or more tariffs, rate schedules, or service agreements. A Tariff Identifier is supplied by the Tariff Submitter. Once a Tariff Identifier in a Tariff Filing has been accepted for filing by the Office of the Secretary (~~SOC~~OSEC), it cannot be changed. A Tariff Identifier~~, even if cancelled,~~ cannot be reused if cancelled.

Tariff Title:
The name of the database assigned by the Tariff Submitter. The name of the database may not be changed. It is suggested that the Tariff Submitter's name not be included in the Tariff Title, as the Tariff Submitter's name is captured by the Company Identifier.

Filing Identifier:
A unique number identifying the subject Tariff Filing. The Tariff Submitter assigns the value. Filing Identifiers do not have to be assigned sequentially from one filing to the next. If a Tariff Filing is rejected by ~~SOC~~OSEC prior to being docketed, the Filing Identifier may be reused.

Filing Title/Description:
The title given to the filing by the Tariff Submitter. Additional instructions may be published on the FERC website or via FERC notice or order. This data element will be used in eLibrary as part of the description of the Tariff Filing. The description may be edited by the ~~SOC~~OSEC before or after posting in eLibrary.

Type of Filing Code:
A numeric code that identifies the Type of Filing being made as defined by FERC regulation. Only one Type of Filing can be submitted in a single Tariff Filing. The Type of Filing will dictate the data requirements for the subject filing. A list of allowable codes will be published on the FERC website located at www.ferc.gov, with changes communicated via a FERC notice or order. FERC will provide this information in CSV (comma separated value) and PDF formats which will be updated as regulations are modified. The Commission will use the Type of Filing Code together with the Tariff Record Proposed Effective Date to establish whether a filing is statutory and the applicable statutory timelines.

Associated Filing Identifier:
Identifies the previous filing, if any, to which the subject filing pertains. The value provided is the Filing Identifier for the previous filing. When Associated Filing data is required, only one Associated Filing number can be provided.

Validation e-mail:
An e-mail address provided by the Tariff Submitter for notification of the results of the technical validations from the eTariff verification process. The Validation e-mail address does not have to be eRegistered with FERC.

Payment Confirmation Code:
For certain Type of Filings, the regulations require that a fee be paid along with the Tariff Filing. The payment of such fee is made at www.pay.gov through the FERC's Online eFiling page. The Payment Confirmation Code~~confirmation number~~ will be the Accession Number provided on FERC's Online pay.gov confirmation screen when ~~obtained after the a~~ successful payment ~~is made is used to populate the Payment Confirmation Code~~. It is suggested that the Tariff Submitter be familiar with the FERC's Online www.pay.gov procedures or pre-pay a set of fees prior to making the Tariff Filing with FERC to avoid last minute delays that may prevent a timely filing.

Suspension Motion:
As of January 2008, this data element is only applicable to certain Part 154 filings made by interstate natural gas pipelines. It is not applicable to the electric or oil industries. This data element indicates whether or not the Tariff Records should automatically go into effect at the end of the applicable suspension period. If the value provided is no ("N"), the status of the Tariff Record will remain "Suspended" until such time as the Tariff Submitter files an appropriate motion filing. If the value provided is yes ("Y"), FERC's eTariff maintenance will automatically change the status from "Suspended" to "Effective" at the end of the suspension period with no further action required of the Tariff Submitter.

Attachment Data Table Data Elements:

Attachment Reference Code:
The data code identifies the type of attachment based on the Type of Filing. A list of allowable codes will be published on the FERC website located at www.ferc.gov, with changes communicated via a FERC notice or order. FERC will provide this information in CSV and PDF formats which will be updated as regulations are modified. This data element must be completed for each required attachment, regardless of whether a waiver is requested for the subject attachment. Other attachments should use the Attachment Reference Code Provided for "Other".

Attachment Description:
This is the description of the individual attachment. For attachments that are pre-defined by FERC's regulations, the description should be the FERC pre-defined description. For attachments that are added by the Tariff Submitter that are "Other", the description can be any value desired. The Attachment Description is not required if a waiver has been requested for the subject attachment. The Attachment Descriptions provided will be displayed in eLibrary. Additional instructions regarding this data element may be published on the FERC website or via FERC notice or order.

Attachment Waiver Requested:
This data element indicates whether or not a waiver is requested. A FERC table providing rules for attachments is located at www.ferc.gov. This table indicates whether an attachment for a given Type of Filing can be waived. If an attachment is provided, the field is filled with no ("N"). If a waiver for the attachment is allowed, and the Tariff Submitter wants to request a waiver, the field is filled with a yes ("Y"). If "Y" is chosen, there is no need to attach the corresponding attachment. The Waiver Request code is solely for the purpose of passing the ~~SOC~~OSEC's electronic filing validation checks. The actual request for waiver of the FERC's regulations and supporting documentation must be provided in the transmittal letter.

Attachment Document File Name:
This is the actual file name for the identified attachment provided by the Tariff Submitter. The file name is the name of the individual electronic document, including the extension. The name is chosen by the Tariff Submitter, unless otherwise provided in FERC instructions. The ~~SOC~~OSEC's file name extension rules will be enforced. The Attachment Document File Name will appear in eLibrary. The Attachment Document File Name is not required if a waiver has been requested for the subject attachment.

Attachment Document:
This is the content of the actual attached document in a base64 bit encoded binary file. This binary file is in the native format of the saved file generated from the word processing software, or other FERC approved software format(s), in which the attachment was written. Base64 bit encoding is an additional step that must be applied to the binary file, using encoding software, enabling the file to be inserted into the XML. The Attachment Document is not required if a waiver has been requested for the subject attachment.

All Tariff Filing attachments must meet the same rules and requirements applicable to any document filed with FERC through its eFiling portal. Instructions with regard to the electronic format and content of electronic documents will be published on the FERC website located at www.ferc.gov or via FERC notice or order. However, the eTariff verification process does not enforce these rules, which are subject to other FERC processes.

A clean copy of the proposed tariff, rate schedule, or service agreement for posting in eLibrary is required for all Tariff Filings. The guidelines for this document are as follows:

Guidelines for the attachment that represents the clean copy of the proposed tariff, rate schedule, or service agreement, or portion thereof, for posting in eLibrary:

1. The electronic version of the clean copy of the proposed tariff, rate schedule, or service agreement, or portion thereof, must conform with the ~~SOCOSEC~~'s guidelines for electronically filed text documents, located at www.ferc.gov.

2. No information is required in the header or footer of the clean tariff, rate schedule, or service agreement, or portion thereof, to be posted in eLibrary. At its discretion, a Tariff Submitter may include information in the header or footer.

3. When using Whole Document Format and the Record Binary Data is submitted in PDF, a title page should be included containing the following information:
    a. Tariff Submitter
    b. FERC Tariff Program name. The current programs are:
        i. FERC FPA Electric Tariff
        ii. FERC PA Electric Tariff
        iii. FERC NGA Gas Tariff
        iv. FERC NGPA Gas Tariff
        v. FERC ICA Oil Tariff
    c. Tariff Title
    d. Tariff Record Proposed Effective Date
    e. Tariff Record Title
    f. Option Code
    g. Other information as the FERC may require by notice or order

4. The attachment that is the clean copy for posting in eLibrary must be identical with that provided in the Record Binary Data with the exception of the text in the header or footer information.

Attachment Content Type Code:
This is the numeric code representing the software format of the specific attachment. A list of allowable codes will be published on the FERC website located at www.ferc.gov with changes communicated via a FERC notice or order. FERC will provide this information in CSV and PDF formats which will be updated as necessary. The Attachment Content Type Code is not required if a waiver has been requested for the subject attachment.

Attachment Security Level:
This code is used to indicate the level of security for the specific attachment. For example, the code indicates whether the attachment is Public, Privileged, or if Critical Energy Infrastructure Information (CEII) classification is being requested. Certain attachments are required to be Public; however, those attachments may be submitted in redacted form along with an un-redacted copy of the attachment. Additional instructions may be published on the FERC website located at www.ferc.gov or via FERC notice or order. The Attachment Security Level is not required if a waiver has been requested for the subject attachment. Documents provided with a public (redacted) and non-public levels of security should use the same Attachment Reference Code for each attachment.

Tariff Record Content Data Table Data Elements:

Tariff Record Identifier:

This data element is a numeric value assigned by the Tariff Submitter to uniquely identify each Tariff Record. This identifier will not change with each revision within a given Tariff Record. The Tariff Record Identifier does not have to be sequential.

Option Code:
This data element permits a Tariff Submitter to propose alternate sets of Tariff Records (Option Sets) in a single Tariff Filing, with a request that FERC determine which Option Set to accept (i.e., place into effect). For each set of Tariff Records, the Tariff Submitter proposed options must start with "A" and increment sequentially through the alphabet, i.e., the Tariff Record can not have an option designated as "A" and another option designated as "C" without having an option of "B". If no alternative Options Sets are being proposed, the value for this data element would be an "A". Each Option Set must contain all Tariff Records for the relevant Tariff Filing even if some of the Tariff Records are identical across the Option Sets. For Tariff Filings with multiple Option Sets, the Tariff Submitter should make Option "A" its primary proposal. If the Type of Filing Code provides for a statutory period and the Commission does not formally act, Option "A" will be deemed Accepted and all other Options deemed Rejected. If FERC accepts ~~Tariff~~ tariff~~Records~~ text from various Option Sets, it will require a compliance filing.

Tariff Record Title:
The Tariff Record Title is chosen by the Tariff Submitter for the individual Tariff Record. The Tariff Record Title may be changed in a subsequent Tariff Filing. If the Whole Document Format is used, the Tariff Record Title of the tariff, rate schedule, or service agreement should reflect the existing FERC naming conventions e.g., FERC Electric Tariff Volume Number 1, Rate Schedule X-5, Service Agreement No. 4 Under Tariff Volume No. 3.

Record Content Description:
This is a textual description of the Tariff Record. When the database is assembled, this field may be used to generate the database Table of Contents. The Record Content Description may be changed in a subsequent Tariff Filing.

Record Version Number:
This is a representation of the version (designation) of the Tariff Record, in the format of x.y.z, where "x" represents revision number for the given Tariff Record, "y" delineates that it is a substitute for a previously filed Tariff Record, and "z" indicates that it is a "squeeze" Tariff Record. A "squeeze" Tariff Record occurs when a Tariff Record needs to be made effective on a date which occurs between the effective dates of two Tariff Records with the same Tariff Record Identifier already on file with FERC. Commonly, this occurs when a Tariff Record is suspended and subsequent Tariff Records need to be made effective prior to when the suspended Tariff Record becomes effective. The Tariff Submitter may choose to use only "x" for all revised, substitute, and squeezed Tariff Records. In that case, the "y" and "z" should be zero.

This information is not used to determine actual status of a Tariff Record. This field will not be checked by the eTariff verification process. FERC will not use it in any automated fashion. This field is provided for ease of business and FERC referencing and will only be used for display.

Guidelines for the Record Version Number:

1. Each version of a Tariff Record must have a unique Record Version Number.

2. The "x", "y" and "z" components:
   - are integers
   - begin with 0.0.0
   - increment separately by one
3. Record Version Numbers are not required for the following Type of Filings and Tariff Record changes:
   - Withdrawal
   - Motions to place Tariff Records into effect or delay effectiveness

Record Narrative Name:
This is an optional data element that provides the Tariff Submitter the ability to include an additional narrative description of the Tariff Record. As of January 2008, FERC has not determined how this information will be utilized.

Tariff Record Collation Value:
This is a value provided by the Tariff Submitter that determines the order in which the Tariff Records are compiled. In other words, it will provide the appropriate sequencing of the Tariff Records. For each Tariff Record:

- Use a unique Tariff Record Collation Value, and
- It is recommended that in the preparation of a new database, a sufficient gap (e.g., increments of 1,000) be provided between the collation values to allow for future insertion of new Tariff Records.

A Tariff Record Collation Value may be modified as part of another Tariff Filing.

Example:

Tariff Record	**Collation Value**
Common Service Provisions	2000
Definitions	3000
Table of Contents	1000

The Tariff Records would be assembled in the following order:

Table of Contents
Common Service Provisions
Definitions

Tariff Record Parent Identifier:
The Tariff Record Parent Identifier provides the hierarchical structure to identify the higher-level part of the database to which the subject Tariff Record belongs.

When a database is first organized, thought should be given to how the electronic Table of Contents will appear. A Tariff Record that has no parent has a Tariff Record Parent Identifier of "0", i.e., top level record. If the value provided is not "0", it must be a valid Tariff Record Identifier of another Tariff Record. It is suggested by FERC that no more than 7 levels under a top level record be used.

A Tariff Record Parent Identifier may be modified as part of another Tariff Filing.

Tariff Record Proposed Effective Date:
This indicates the date the given Tariff Record is proposed to go into effect. It is used to determine which version of a Tariff Record change is effective in accordance with

applicable law, regulations and business practices. The data in this field is subject to FERC review and disposition, which will impact the status of a Tariff Record for any given period of time. The Commission will use the Type of Filing Code together with the Tariff Record Proposed Effective Date to establish whether a filing is statutory and the applicable statutory timelines.

If the effective date is not known at the time of the filing, such as the effective date is contingent on FERC approval, the closing of a plant sale, etc., the date of 12/31/99998 must be used. Use of this option may have regulatory consequences depending on the FERC Tariff Program.

Changing a Tariff Record Proposed Effective Date requires a Tariff Filing.

Record Effective Priority Order:
A positive integer assigned by the Tariff Submitter that indicates the order of multiple changes for a given Tariff Record (i.e., the same Tariff Record Identifier) proposed to go into effect on the same date. The Tariff Record with the highest Record Effective Priority Order will supersede any other Tariff Records with the same Tariff Record Identifier also proposed to be effective for that date. The value must be unique across Tariff Records with the same Tariff Record Identifier and Tariff Record Proposed Effective Date. It is recommended that the default Record Effective Priority Order value be set relatively high, e.g., 500, thereby allowing subsequent Tariff Filings with Record Effective Priority Orders either before or after the initial Record Effective Priority Order.

Record Content Type Code:
This is the numeric code representing the software format of the specific Record Binary Data. A list of allowable codes will be published on the FERC website located at www.ferc.gov with changes communicated via a FERC notice or order. FERC will provide this information in CSV and PDF formats which will be updated as necessary.

Record Binary Data:
This is the content of the Tariff Record in a Base64 bit encoded binary file. This binary file is in the native format of the saved file generated from the word processing software, or other FERC approved software format(s), in which the Tariff Record content was written. Base64 bit encoding is an additional step that must be applied to the binary file, using encoding software, enabling the file to be inserted into the XML.

All Record Binary Data must meet the same rules and requirements applicable to any document filed with FERC through its eFiling website. Instructions with regard to the electronic format and content of electronic documents will be published on the FERC website located at www.ferc.gov or via FERC notice or order. However, the eTariff verification process does not enforce these rules, which are subject to other FERC processes.

Record Plain Text:
This is the plain text version of the content of the Record Binary Data. Formatting and other binary values are stripped from this content. This field will be used for searching and indexing.

Record Change Type:
This data element indicates the type of change / revision / maintenance action being requested for the Tariff Record, e.g., new, change, cancel, etc. Some Type of Filings are restricted to the choice of Record Change Types.

Business descriptions of the Record Change Types are as follows:

NEW: To create a new Tariff Record Identifier.

CHANGE: To change an existing Tariff Record. Modifications to a Tariff Record that has been cancelled may be made if the Tariff Record Proposed Effective Date is prior to the cancellation date.

CANCEL: Used to cancel a Tariff Record Identifier. Once cancelled, the Tariff Record Identifier cannot be changed with a filing that contains a Tariff Record Proposed Effective Date that is after the accepted date of cancellation. Cancellation of a Tariff Record Identifier that is a Tariff Record Parent Identifier will automatically cancel all related child Tariff Record Identifiers.

Cancellation of a Tariff Record Identifier should not be confused with cancelling a Tariff Identifier, which requires the submission of a cancellation Type of Filing.

WITHDRAW: Used to withdraw a pending or suspended Tariff Record. The withdrawal of a "NEW" Tariff Record Parent Identifier will automatically cancel all "NEW" children. Withdrawal of "CHANGE" Tariff Records requires identification of each changed Tariff Record to be withdrawn. Filings to withdraw Tariff Records that are no longer pending or suspended will result in a verification error and ~~SOC~~OSEC rejection. ~~"WITHDRAW" can only be used with a withdrawal Type of Filing.~~ Depending on the program, withdrawal's effectiveness may be reflected automatically by FERC's eTariff database maintenance. At a minimum, the Tariff Submitter needs to provide the following data elements:

- Tariff Record Identifier
- Option Code
- Record Change Type
- Associated Filing Identifier
- Associated Record Identifier
- Associated Option Code

PRO FORMA: Used to submit a Tariff Record proposal without invoking statutory processing timelines. The Tariff Submitter should include a Tariff Record Proposed Effective Date, which is used for database maintenance. Pro Forma Tariff Records cannot be converted to effective Tariff Records by FERC, and should be resubmitted as actual Tariff Records.

Associated Filing Identifier:
Used to provide the Tariff Filing Identifier associated with a previously filed Tariff Record that the subject Tariff Record replaces. This field is only populated when the Associated Filing Identifier data element (in the Filing Data Table) is populated. This data element is used in conjunction with the Associated Record Identifier and the Associated Option Code (below). This is not applicable to all Type of Filings.

An Associated Filing Identifier for the subject Tariff Record does not have to be the same as the Associated Filing at the filing level used in this Tariff Filing.

Amendment and Compliance Type of Filings permit multiple Associated Filing Identifiers, however only one Associated Filing Identifier may be provided for each Tariff Record.

Associated Record Identifier:
This field is used in conjunction with the Associated Filing Identifier and the Associated Option Code to provide the Tariff Record Identifier of the Tariff Record which the subject Tariff Record replaces. It should refer to a Tariff Record Identifier in a previous filing, and this value should be that record's Tariff Record Identifier.

Associated Option Code:
This field is used in conjunction with the Associated Filing Identifier and the Associated Record Identifier. The value should be the correct Option Code for the Associated Record Identifier.

DATA DICTONARY

NAESB WGQ Standard 11.4.1 and NAESB WEQ Standard WEQ-014

Introduction

The following three Data Tables make up the Data Dictionary for electronic Tariff Filings. Conceptually, the purpose of each table is:

- Filing Data - describes the overall filing.
- Attachment Data - supporting documents required by specific Type of Filing or additional documents supplied by the Tariff Submitter.
- Tariff Record Content Data - the actual “text” or “content” of the tariff, rate schedule, or service agreement along with its associated metadata.

The data elements contained in the three data tables are presented in the order in which they appear in the XML schema.

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Filing Data

This data defines the Tariff Filing and this data will be provided with each Tariff Filing.

Business Name (1)	Element Name (2)	Definition of Data Element (3)	Field Format (length) (4)	Valid Values (5)	Usage Responsibility Conditions (6)
Schema Version	schema_version	The version of the XML schema used to create the specific Tariff Filing.	Numeric (10)	Any number between 1 and 2,147,483,648	Required.
Company Identifier	company_id	A FERC-designated Company Identifier code used to identify an entity required to submit Tariff Filings to FERC pursuant to Title 18 Code of Federal Regulations Parts 35, 154, 284, 300, 341 or other Parts as required by FERC.	Alphanumeric (10)	Free form text	Required. Assigned by FERC and provided in the Tariff Filing by the Tariff Submitter.
Tariff Identifier	tariff_id	A unique identifier for the Tariff Submitter's database assigned by the Tariff Submitter as it pertains to the database being modified by the Tariff Filing. This can be any value in the allowable range of numbers, but it must be unique for each Tariff Submitter's database. A Tariff Submitter may have more than one active database.	Numeric (10)	Any number between 1 and 2,147,483,648	Required. Assigned and provided by the Tariff Submitter. The Tariff Identifier of the database **cannot** change.
Tariff Title	tariff_title	The name of the database assigned by the Tariff Submitter.	Alphanumeric (100)	Free form text.	Required only when creating a new database. After the initial submission, the Tariff Identifier is used, and this data element may be left blank. Assigned and provided by the Tariff Submitter. The Tariff Title of the database **cannot** change.

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Business Name (1)	Element Name (2)	Definition of Data Element (3)	Field Format (length) (4)	Valid Values (5)	Usage Responsibility Conditions (6)
Filing Identifier	filing_id	A unique identifier for the subject Tariff Filing for the Tariff Submitter.	Numeric (10)	Any number between 1 and 2,147,483,648	Required. Assigned and provided by the Tariff Submitter. This can be any value in the valid range of numbers, but it must be unique across all Tariff Filings for a specific Tariff Submitter.
Filing Title / Description	filing_title	The title given to the Tariff Filing by the Tariff Submitter.	Alphanumeric (80)	Free form text.	Required. Assigned and provided by the Tariff Submitter. This will not be used in FERC's eTariff system and will be used in eLibrary.
Type of Filing Code	filing_type	A code that identifies the specific FERC defined type of Tariff Filing as set forth in Title 18 Code of Federal Regulations Parts 35, 154, 284, 300, 341 or other Parts as required by the Commission (e.g., initial, compliance, surcharge, etc.). The Type of Filing will dictate the data requirements for the subject filing	Numeric (10)	See list of codes posted @ www.ferc.gov	Required.
Associated Filing Identifier	associated_filing_id	The Filing Identifier for the previous Tariff Filing to which the subject filing pertains (i.e., associated).	Numeric (10)	Any number between 1 and 2,147,483,648	Conditional. Assigned and provided by the Tariff Submitter. This is not applicable to all Type of Filings. Where it is used, it must refer to a previous Tariff Filing, and the value should be that previous Tariff Filing's "filing_id" value. An example might be the subject Tariff Filing is a compliance (or withdrawal) filing and the previous, applicable Tariff Filing to which it pertains must be identified in this field.

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Business Name (1)	Element Name (2)	Definition of Data Element (3)	Field Format (length) (4)	Valid Values (5)	Usage Responsibility Conditions (6)
Validation e-mail	validation_email	The ~~email~~ e-mail address provided by the Tariff Submitter for notification of whether the Tariff Filing meets the technical requirements such that it can be passed on to the ~~Secretary of the Commission (SOC)~~OSEC for further processing.	Alphanumeric (100)	Free form text	Required.
Payment Confirmation Code	pay_confirm_code	The confirmation Accession ~~number~~Number for the associated fee that has been previously submitted via FERC's Online www.pay.gov, as applicable.	Alphanumeric (15)	~~Free form text~~FERC Accession Number in nnnnnnnn-nnnn format	Conditional based on the Type of Filing. Required if payment is required by the regulations. Provided by the Tariff Submitter.
Suspension Motion	suspend_motion	An indication of whether or not the Tariff Records should automatically go into effect at the end of the applicable suspension period.	Character (1)	"Y" or "N"	Conditional based off of Type of Filing. Provided by the Tariff Submitter.

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Attachment Data

This defines data for each supporting / attached document that is either (1) being provided with the Tariff Filing or (2) for which a waiver is requested.

Business Name (1)	Element Name (2)	Definition of Data Element (3)	Field Format (length) (4)	Valid Values (5)	Usage Responsibility Conditions (6)
Attachment Reference Code	att_ref_code	The FERC assigned reference code for each attachment type.	Numeric (10)	See list of codes posted @ www.ferc.gov	Required. Provided by the Tariff Submitter. If the attachment pertains to a specific document defined for the Type of Filing, the appropriate document reference code must be used. Note: The code may be different for each Type of Filing.
Attachment Description	att_desc	The title given to the attachment submitted by the Tariff Submitter.	Alphanumeric (80)	Free form text.	Required. For attachments that are pre-defined by FERC's regulations, the description will be the FERC pre-defined description. For other attachments that are added by the Tariff Submitter, the description can be any value desired. These descriptions will be displayed in eLibrary as assigned and provided by the Tariff Submitter.
Attachment Waiver Requested	att_waiver_request	An indication of whether or not the Tariff Submitter is requesting a waiver for submission of the attachment specified as required by the Attachment Reference Code.	Character (1)	"Y" - waiver is requested "N" or " " - waiver not requested	Conditional on the Type of Filing – required for those attachments that are required by regulations. Assigned and provided by the Tariff Submitter. For each document that is requested to be waived, the Attachment Reference Code (above) is provided, and a value of "Y" is entered here. If an actual document is being provided, this value should be "N" or " ".

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Business Name (1)	Element Name (2)	Definition of Data Element (3)	Field Format (length) (4)	Valid Values (5)	Usage Responsibility Conditions (6)
Attachment Document	att_binary_data	This is the actual document content.	Binary (50 MB)	Binary Base64 bit encoded file content	Conditional on the Type of Filings. Required if Attachment Document is required by regulation and waiver of such is not requested in the field "Attachment Waiver Requested." Provided by the Tariff Submitter.
Attachment Document File Name	att_filename	The complete file name, including the extension, assigned by the Tariff Submitter of the Attachment Document being attached.	Alphanumeric (60)	Free form text. Must not include ? / * \ " ' > or <.	If the Attachment Waiver Requested is "Y", Attachment Document File Name is not required. Assigned and provided by the Tariff Submitter if not otherwise pre-defined by FERC's regulations or instructions. This file name will be used to identify the document and the extension will be used for retrieval purposes. Valid file names cannot include special characters such as: ? / * \ " ' > <
Attachment Content Type Code	att_content_type_code	The numeric code representing the software format of the specific Attachment Document.	Numeric (10)	See list of codes posted @ www.ferc.gov	Conditional, required when the Attachment Document is provided.
Attachment Security Level	att_security_level	The level of security requested for the specific attached document corresponding to the applicable Attachment Document.	Character (1)	"P" - Public "M" - Privileged "X" - Critical Energy Infrastructure Information See list of codes posted @ www.ferc.gov	Conditional based on Type of Filing. Required when the Attachment Document is provided. Certain Attachment Documents are required to be Public. Assigned and provided by the Tariff Submitter.

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Tariff Record Content Data

This provides the data for each Tariff Record.

Business Name (1)	Element Name (2)	Definition of Data Element (3)	Field Format (length) (4)	Valid Values (5)	Usage Responsibility Conditions (6)
Tariff Record Identifier	record_id	An identifier for the Tariff Record within a given database that will not change as a result of revisions to the content of the Tariff Record (with same or different effective dates). No two different Tariff Records in the same database may have the same Tariff Record Identifier.	Numeric (10)	Any number between 1 and 2,147,483,648	Required. Assigned by the Tariff Submitter. Each Tariff Record in the database has an associated Tariff Record Identifier number that does not change with each revision within a given database. The Tariff Record Identifier is not used for collation and does not have to be assigned sequentially.
Option Code	option_code	An identifier that designates the alternative Tariff Record option being submitted. An identifier that designates the primary Tariff Record as “A” and designates all alternative Tariff Record options being submitted, if any, sequentially in alphabetic order.	Character (1)	"A" thru "Z" allowed.	Required. Provided by the Tariff Submitter. Default (no more than one option is provided) is “A”.
Tariff Record Title	record_title	The name of the Tariff Record contents.	Alphanumeric (60)	Free form text.	Required, if Tariff Record is a first-level Parent or in a Whole Document Format. Optional in other cases. Assigned by the Tariff Submitter. This field may be used in a database generated Table of Contents.
Record Content Description	record_content_desc	Textual description of the Tariff Record.	Alphanumeric (25)	Free form text.	Required. Assigned by the Tariff Submitter. This field may be used in a database generated Table of Contents.

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Business Name (1)	Element Name (2)	Definition of Data Element (3)	Field Format (length) (4)	Valid Values (5)	Usage Responsibility Conditions (6)
Record Version Number	record_version_num	A representation of the version (designation) of the Tariff Record.	Alphanumeric (10)	x.y.z x = revision number y = substitute number z = "squeezed" number	Conditional based on Type of Filing. This information is not used to determine actual status of a Tariff Record. It is not used in any automated fashion other than display (possibly in the table of contents). This data is provided for ease of business and FERC referencing only.
Record Narrative Name	record_narrative_name	An additional narrative description of the Tariff Record.	Alphanumeric (254)	Free form text	Optional.
Tariff Record Collation Value	collation_value	A value that will determine the sort order in which the Tariff Records are merged.	Numeric (25)	Any number between 1 and 2,147,483,648	Required. Assigned by the Tariff Submitter.
Tariff Record Parent Identifier	record_parent_id	Provides the hierarchical structure to identify the higher-level part of the database to which this Tariff Record belongs.	Numeric (10)	Any number between 0 and 2,147,483,648	Required. Assigned by the Tariff Submitter. If the Tariff Submitter chooses not to use the functionality of this field, they must still populate the field with "0". Otherwise, the value must be a valid Tariff Record Identifier.
Tariff Record Proposed Effective Date	proposed_effective_date	The proposed effective date for the specified Tariff Record.	Date (10)	YYYY-MM-DD	Required. Assigned by the Tariff Submitter.

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Business Name (1)	Element Name (2)	Definition of Data Element (3)	Field Format (length) (4)	Valid Values (5)	Usage Responsibility Conditions (6)
Record Effective Priority Order	priority_order	A positive integer that directs which of multiple changes of a given Tariff Record (the same Tariff Record Identifier) proposed to go into effect on the same day, will take precedence, i.e., the Tariff Record with the highest numeric value will supersede any other Tariff Records with the same Record Identifier also proposed to be effective for that day.	Numeric (10)	Any number between 1 and 2,147,483,648	Required. Assigned by the Tariff Submitter. Default value should allow for priority values below and above the Tariff Record of a specific Tariff Record Proposed Effective Date initial value (for example: 500). The value must be unique for a specific Tariff Record for a specific Tariff Record Proposed Effective Date. When the current database is assembled for a particular effective date and there are multiple Tariff Records with the same Record Identifier and the same effective date, the approved Tariff Record for that effective date with the highest Record Effective Priority Order number will be the effective Tariff Record.
Record Content Type Code	record_content_type_code	The version of the software used to create the specific Tariff Record.	Numeric (10)	See list of codes posted @ www.ferc.gov	Conditional based on Type of Filing and/or structure of database. Provided by the Tariff Submitter.
Record Binary Data	record_binary_data	The actual Tariff Record content.	Binary (10 MB)	Binary Base64 bit encoded file content	Conditional based on Type of Filing and/or structure of database. Provided by the Tariff Submitter.
Record Plain Text	record_plain_text	The plain text version of the content of the Record Binary Data. Formatting and other binary values are stripped from this content.	Alphanumeric (10 MB)	Free form text	Conditional based on Type of Filing and/or structure of database. Provided by the Tariff Submitter.
Record Change Type	record_change_type	A description of the type of change being requested.	Alphanumeric (15)	See Code Values Dictionary	Required. Assigned by the Tariff Submitter. Used to identify the appropriate Tariff Record maintenance action. Some Type of Filings restrict the choice of Record Change Types.

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Business Name (1)	Element Name (2)	Definition of Data Element (3)	Field Format (length) (4)	Valid Values (5)	Usage Responsibility Conditions (6)
Associated Filing Identifier	associated_filing_id	The Tariff Filing Identifier associated with a previously filed Tariff Record which the subject Tariff Record replaces. Note: This is used in conjunction with the Associated Record Identifier and the Associated Option Code (below).	Numeric (10)	Number between 1 and 2,147,483,648 used by the Tariff Submitter in a previous Tariff Filing	Conditional. Assigned by the Tariff Submitter. This is not applicable to all Type of Filings. Where the Type of Filings permits or requires its use, it must refer to a previous Tariff Filing, and the value should be that previous Tariff Filing's Filing Identifier.
Associated Record Identifier	associated_record_id	This is used to associate the specific content with a previously filed Tariff Record. For example, withdrawal Tariff Filings must identify the content being requested to be withdrawn. Note: This is used in conjunction with the Associated Filing Identifier (above) and the Associated Option Code (below).	Numeric (10)	Number between 1 and 2,147,483,648 used by the Tariff Submitter for the targeted Tariff Record Identifier	Conditional. Assigned by the Tariff Submitter. This is not applicable to all Type of Filings. Where it is used, it must refer to a Tariff Record Identifier in the associated filing.
Associated Option Code	associated_option_code	An identifier that designates the alternative associated record option of a previously filed Tariff Record. Note: This is used in conjunction with the Associated Filing Identifier and the Associated Record Identifier (above).	Character (1)	"A" thru "Z" used by the Tariff Submitter for the targeted Tariff Record Identifier	Conditional. Assigned by the Tariff Submitter. Where it is used, the value should be the applicable Option Code value for the Associated Record Identifier.

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Code Values Dictionaries and FERC Reference Tables

Certain data elements need to be populated with standardized responses (code values). Some of these data elements lend themselves to simple code value tables as provided below. For others, FERC will provide reference tables in a downloadable CSV file. After the following data element code values tables is an extensive explanation of the FERC reference tables.

Data Element: Attachment Waiver Requested

Code Value	Code Value Description
N	No, a waiver of the attachment is not being requested.
Y	Yes, a waiver of the attachment is being requested.

Data Element: Option Code

Code Value	Code Value Description
A	Default for the primary Tariff Record.
B, C, through Z	Subsequent codes used for alternatives and must be provided in alphabetical order.

Data Element: Record Change Type - (code values is case sensitive)

Code Value	Code Value Description
CANCEL	Used to cancel a Tariff Record Identifier.
CHANGE	Used to change an existing Tariff Record.
NEW	Used to create a new Tariff Record Identifier.
PRO FORMA	Used to submit a Tariff Record proposal without invoking statutory processing timelines.
WITHDRAW	Used to withdraw a pending or suspended Tariff Record.

Data Element: Suspension Motion

Code Value	Code Value Description
N	No, the filing should not become effective without a separate filing to request such.
Y	Yes, the Tariff Record(s) should go into effect at the end of the suspension period.

FERC Reference Tables Provided in Downloadable Files

FERC will provide reference tables in downloadable files for the remaining data elements which have standardized code values, as well as to provide information to assist in the development of a Tariff Submitter's document management system and the creation of a Tariff Filing. The downloadable files will contain the appropriate codes to be used to populate the identified XML data elements (schema) and/or contain data that can be used to assist in error processing, provide FERC validation information and/or FERC business rules used to process the Tariff Filing.

This section is composed of three parts:

(1) A list of the FERC File Downloads and their contents;
(2) The Format of the FERC File Download Files; and
(3) A description of the data elements contained in the FERC File Downloads

(1) List of FERC File Downloads

The following is a list of the downloadable files that FERC will post on its website, located at www.ferc.gov. The files listed will be available in CSV and may be provided in PDF formats.

- Type of Filing (filing_type) – code values and rules of use
- Attachment Reference Code (att_ref_code) – code values and rules of use
- Attachment Content Type Code (att_content_type_code) – code values
- Attachment Security Level (att_security_level) – code values
- Record Content Type Code (record_content_type_code) – code values
- Validation error codes provided by FERC.

(2) Format of the FERC File Downloads

The downloadable files posted on the FERC website will be formatted in CSV. The first row of the file will be the title of each of the columns and will determine the order in which the corresponding data is to appear in all subsequent rows. The following are the CSV file format specifications:

- Rows are separated by a carriage return/line feed (CRLF).
- Fields are separated by commas.
- When a field contains a comma, the field will be enclosed by double-quotes.
- When numeric data contains decimal precision, the decimal point will be included within the field.
- When a field contains no data, the empty field will contain two delimiters next to each other. Note that there will be no blank spaces between the delimiters.

(3) Description of the Data Elements contained in the FERC File Downloads

FERC's Tariff Filing requirements are the function of many statutory, regulatory and business processes. A Tariff Filing must satisfy many rules simply to be considered a filing acceptable for processing by the FERC. How FERC maintains the contents of Tariff Filings is a function of these statutory, regulatory and business rules, plus its own findings with regard to the merits of the Tariff Submitter's proposal(s). FERC has created software for internal purposes of automating the Tariff Filing review process and much of the eTariff maintenance process. It is in the interest of the FERC that Tariff Submitters create electronic Tariff Filings that are compatible with FERC's automated Tariff Filing and eTariff maintenance processes. For that reason, FERC provides the public information on additional data elements that it uses as part of its processes. This information may be used by Tariff Submitter's document management system to add functionality to the processes and to improve accuracy of the Tariff Filings. FERC will not review or certify any Tariff Submitter's document management system.

Following is a description of each of the downloadable files and the data contained in such files (both eTariff XML data elements and non-eTariff data elements used by FERC). The names of the columns that will be contained in the downloadable files are reflected below and are either shown in **bold** text (XML schema data elements) or in *italics* (non-XML schema data elements).

- **Type of Filing** (filing_type) - This file contains thirteen columns:

    1. **filing_type** – The values are used to populate the filing_type XML data element for the subject Tariff Filing. The statutes, regulations and business rules provide for many different filing types. Every Type of Filing has a unique code that is randomly generated by FERC. It is used to direct the software to a set of data elements that describe that filing type.

    2. *description* – Description of the filing_type. In this column FERC will provide its description for each Type of Filing code.

    3. *prog_code:* The "program code" refers to the different FERC Tariff Programs. As of January 2008, FERC has divided the various Type of Filings into five programs which are reflected by the six values below. FERC will allow the Tariff Submitter to determine which Type of Filing codes are relevant based on its FERC Tariff Programs. Within the five programs are dozens of different Type of Filings. The values in this column are defined below:

        E = Federal Power Act Electric (Traditional Cost of Service and Market Based Rates) Public Utilities
        F = Power Administrations
        G = NGA Gas Pipelines
        K = NGPA 311 Gas Pipelines
        M = Federal Power Act Electric (Market Based Rate) Public Utilities
        O= Oil Pipelines

        FERC assigns one of the above program codes to a Tariff Submitter at the time the Tariff Submitter registers with FERC as part of the company registration

process. The Tariff Submitter can only make Tariff Filings with one of the Type of Filing codes that are under the same program code as the Tariff Submitter.

Note: The program code of "M" is a subset of the "E" program code unique for FPA Tariff Submitters that only sell power at Market Based Rates. Tariff Submitters with "E" and "M" program codes will need to change their program code through the FERC company registration process if it requires access to Type of Filing codes not available in its program.

4. *new_type* – This column will indicate either yes (Y) or no (N). This reflects a type of Baseline category Type of Filing that requires both the creation of a new Company Identifier and a new Tariff Identifier. A more detailed explanation of the broad category of Baseline is provided below.

5. *refiled_type* – This column will indicate either yes (Y) or no (N). This reflects a type of Baseline category Type of Filing wherein the Tariff Submitter already has a pre-existing database or collection of paper tariffs, rate schedules, or service agreements and is requesting a new Tariff Identifier. A more detailed explanation of the broad category of Baseline is provided below.

6. *compliance_type* – This column will indicate either yes (Y) or no (N). This reflects a Type of Filing more fully explained below for the broad category of Compliance type.

7. *amendment_type* – This column will indicate either yes (Y) or no (N). This reflects a Type of Filing more fully explained below for the broad category of Amendment type.

8. *motion_type* – This column will indicate either yes (Y) or no (N). This reflects a Type of Filing more fully explained below for the broad category of Motion type.

9. *withdraw_type* – This column will indicate either yes (Y) or no (N). This reflects a Type of Filing more fully explained below for the broad category of Withdraw type.

10. *report_type* – This column will indicate either yes (Y) or no (N). This reflects a Type of Filing more fully explained below for the broad category of Report type.

11. *cancellation_type* – This column will indicate either yes (Y) or no (N). This reflects a Type of Filing more fully explained below for the broad category of Cancellation type.

12. *suspend_motion_response* – This column will indicate either yes (Y) or no (N). FERC may suspend certain Type of Filings. For some programs, the Tariff Submitter is required to inform FERC whether or not it is submitting a motion to place suspended Tariff Records into effect at the end of the suspension period. The download file will indicate the Type of Filings requiring such a data element be populated by the Tariff Submitter.

13. *status_change_timeout* – Many Type of Filings must be acted upon by FERC by a certain number of days from the date of the Tariff Filing. This data element shows the number of days from the date of the filing before the FERC internal system will automatically change the status in the absence of a FERC order.

14. *fee_required* – this column will indicate either yes (Y) or no (N). if yes(Y),then this Type of Filing requires a filing fee be made with the Commission.

15. *active_date* – This column will indicate the effective date of the other data elements on the row.

16. *inactive_date* – This column will indicate the retirement date of the other data elements on the row. If there is no known retirement date, the date of 12/31/9998 will appear.

Explanation of Type of Filing Categories:

Different Type of Filings have different business processes as required by statute, regulation or business practice. FERC breaks down the dozens of different Type of Filings into eight broad categories that have similar business processes. The eight broad categories are explained below however, not all of them have individual columns in the download file.

The eight broad categories of Type of Filings are defined by FERC as:

- Baseline - This category is used for a Type of Filing that requires a new Tariff Identifier. Every Tariff Submitter establishing a new Tariff Identifier must start with a Baseline filing. However, the automated processing is different depending on whether the requested action is “New” or “Refiled” as more fully explained in the description above for the columns “*new_type*” and “*refiled_type*”:

- Normal/Statutory - This category is used for a Type of Filing wherein the Tariff Submitter is the proponent of the change(s) in a tariff, rate schedule, or service agreement. This business process rule will be the most commonly used by Tariff Submitters. FERC has rules for some programs, such as when a Type of Filing is appropriate relative to various indices, such as the status of a Tariff Filing or Tariff Identifier. Statutory, regulatory and business rules apply to the status of a proposed change(s) in a tariff, rate schedule, or service agreement. Many of these rules are automated to change the status conditions in the appropriate circumstances. A Type of Filing is a "normal" type if the data in the columns on the download file for all category types (motion_type, report_type, amendment_type, etc.) are set to "N".

- Compliance - This category is used for a Type of Filing wherein the Tariff Submitter proposes to comply with a FERC order. There is no automated rule to change the status of the Tariff Filing. These status changes will require FERC action.

- Amendment - This category is used for Type of Filings wherein the Tariff Submitter proposes to change a pending Tariff Filing prior to FERC or business process rule action on a Normal/Statutory or Compliance Type of Filing. A Tariff Submitter cannot amend a filing that FERC has acted upon either by order or by rule of law. Amendment Type of Filings modify the timing of automated action on the associated Normal/Statutory or Amendment Type of Filing. An Amendment subordinates the associated Type of Filing to the Amendment Type of Filing. Amendments can be infinitely associated with each other with the same result of modifying the timing of automated action on the associated Normal/Statutory Type of Filing and subordinates it to the Amendment Type of Filing.

- Motion - This category of Type of Filing can only be associated with Tariff Records whose status condition in the FERC eTariff database is "suspended". The only action that a filing in this category can do is to change the Proposed Effective Date of the Tariff Record that is "suspended". Any change in the tariff, rate schedule, or service agreement is ignored. If a Tariff Submitter wishes to change both the status of suspended Tariff Record and tariff, rate schedule, or service agreement, it must file a "Compliance" Type of Filing.

- Withdraw - This category of Type of Filing can only be associated with Tariff Records that are (depending on the program) in the FERC eTariff database in a "pending", "conditional" or "suspended" status condition. Any change in the tariff, rate schedule, or service agreement is ignored. This business process rule may (depending on the program) automatically withdraw the targeted Tariff Record and change the formerly "superseded" Tariff Records to "effective." Therefore, no additional Tariff Filing or Tariff Records are required to reinstate the superseded Tariff Record.

  Note: ~~A Withdraw Type of Filing may only be for a specific Tariff Record, or for all Tariff Records, in the associated filing. If the Tariff Submitter desires to withdraw a complete filing, it must target every Tariff Record in the associated filing~~. The Withdraw category of Type of Filing should not be confused with the Record Change Type of WITHDRAW. The withdraw category of Type of Fling acts upon the associate filing as a whole, whereas the WITHDRAW Record Change Type acts upon the associated tariff record.

- Report - This category of Type of Filing contains no Tariff Record information. It can only be used to supplement the record of the proceeding. Basically, the Report Type of Filing is meant to provide Tariff Submitters a means to make complex filings with FERC in an established proceeding as an alternative to FERC's eFiling website portal for non-Tariff Filings.

- Cancellation - This category of Type of Filing is used by the Tariff Submitter to terminate a Tariff ~~Record~~Identifier. Once a Tariff

~~Record~~ Identifier is cancelled, only Compliance Type of Filings with a Proposed Effective Date before the effective date of the cancelled Tariff Record may be filed using the cancelled ~~Record~~ Tariff Identifier.

- **Attachment Reference Code** (att_ref_code) - This file contains seven columns:

  1. **filing_type** – This column relates the Type of Filing with the available selection of attachments.

  2. **att_ref_code** – This column is used to populate the att_ref_code XML data element field for each attachment.

  3. **att_desc** – This column is used to populate the att_desc XML data element field for each attachment.

  4. *citations* – This column provides the corresponding Citation to FERC regulation. This is simply a text field that provides the reader with additional information as to the source of the requirement.

  5. *is_required* – This column will indicate either yes (Y) or no (N). Certain documents are required by either regulation or business rule for the Tariff Filing to be considered complete enough for the ~~SOC~~OSEC to accept for filing. For each Type of Filing code, the attachments expected with each filing are identified, and for each attachment the coding as to whether the attachment is required by the ~~SOC~~OSEC as a minimal condition is provided.

  6. *can_waive* - This column will indicate either yes (Y) or no (N). Some attachments may be required, but FERC may permit the Tariff Submitter to request that the requirement be waived. FERC will post whether a required attachment may be waived.

  7. *req_access_lvl* – This column indicates the required security level on a file as indicated in the att_security_level download file. A blank indicates no required security level. The values are defined below:
     P = Public
     M = Privileged
     X = Critical Energy Infrastructure Information

- **Attachment Content Type Code** (att_content_type_code) - This file contains two columns:

  1. **att_content_type_code** - The values are used to populate the att_content_type_code XML data element for each attachment.

  2. *description* – The description of the electronic format represented by the code.

  3. *file_extension* – This column contains the electronic format extensions.

4. *active_date* – This column will indicate the effective date of the other data elements on the row.

5. *inactive_date* – This column will indicate the retirement date of the other data elements on the row. If there is no known retirement date, the date of 12/31/9998 will appear.

- **Attachment Security Level** (att_security_level) - This file contains two columns:

1. **att_security_level** – The values are used to populate the att_security_level field for each attachment.

2. *description* - Description of the FERC security level associated with the att_security_level. Note that every attached document must have a populated att_security_level. FERC will not presume any default document security level.

3. *active_date* – This column will indicate the effective date of the other data elements on the row.

4. *inactive_date* – This column will indicate the retirement date of the other data elements on the row. If there is no known retirement date, the date of 12/31/9998 will appear.

- **Record Content Type Code** (record_content_type_code) - This file contains two columns:

1. **record_content_type_code** – The values are used to populate the record_content_type_code field for each record.

2. *description* - Describes the record_content_type_code.

- **Validation** ~~**error codes**~~**Error Codes** (validation_error_code.csv) - This file contains two columns:

1. *error_code* – The values for the identified error.

2. *description* - Describes the error.

Technical Specifications

Electronic Delivery Specifications

- **High-level Summary**

The following section defines the technical details and processes for computer-to-computer exchange of an XML file between a Tariff Submitter and FERC for electronic-Tariff Filings. It also defines eFiling authentication, eTariff portal security, and information on error / messages, security and maintenance. It does not provide information related to developing a Tariff Submitter's document management system as FERC is not providing a system to manage the Tariff Submitter's tariffs, rate schedules, or service agreements. The Tariff Submitter can either purchase a third party software system, or design and develop its own system (manual or automated) to maintain its tariffs, rate schedules, or service agreements. The Tariff Submitter will provide an XML formatted eTariff filing in accordance with the eTariff standards and other FERC requirements.

The Tariff Submitter will not have direct access to the FERC eTariff database to add, change or delete records. The Tariff Submitter will only be able to maintain its data in the FERC eTariff database via data sent through the eTariff filing process.

The following process describes the electronic Tariff Filings that **must** be filed through the FERC's eFiling web page located at www.ferc.gov.

- **Format of Upload Data**

The eFiling portal for eTariff filing packages assumes the Tariff Submitter has already produced an XML file that contains both data tags and embedded data per the business specifications provided and has been packaged as a zip file. There are no restrictions on the file name other than "normal" file naming conventions (i.e., a file name should contain no periods except the period preceding the file extension and no backslashes), the total character length must be 64 characters or less, and must have a ".ZIP" extension.

- **Login/authentication Requirements**

  eRegistration:
  In order to submit a Tariff Filing through the eTariff portal, the User must be eRegistered with FERC. The eRegistration process will allow the User to login to FERC's eFiling portal. The instructions on how a User may become eRegistered are located at www.ferc.gov.

eFiling Requirements:
The FERC's eFiling *Reference Guide* located at www.ferc.gov provides a step-by-step set of instructions and expected results for the eFiling process.

Company Registration Requirements:
To log into FERC's eTariff portal, the User will be required to have a Company ~~Login number~~ Identifier and password. This ~~number~~ Company Identifier is unique for each company filing tariffs, rate schedules, or service agreements with FERC. All Users will enter the same Company Identifier~~number~~ for a given company. This ~~number~~ Company Identifier's password is company proprietary and should be treated as such. Instructions on how to obtain a Company ~~Login number~~ Identifier and password are located at FERC's Online's Company Registration application, located at www.ferc.gov. Note: ~~this number~~ The eTariff Company Identifier should not be confused with the data element Company Identifier contained in the data dictionary.

- **Minimum Technical Capabilities of Browser Clients**

FERC's eFiling portal is compatible with most common internet browsers, but is optimized for use with Microsoft® Internet Explorer ~~6~~7.0.

- **Error Codes and Handling**

Error codes that can occur during the upload of the eTariff package on the FERC eFiling portal will be provided as described in the eFiling documentation, located at www.ferc.gov.

The e-mail that results from the eTariff verification process will use specific error codes/descriptions. The error codes provided within the e-mail can be decoded with the FERC-published code table located at www.ferc.gov. This table can be downloaded in CSV format and may be available in PDF format.

~~As of January 2008, FERC eTariff verification process has not been written. Examples of some validation tests that may be included are:~~

- ~~The Company Login number entered by the User is not an eTariff registered company;~~
- ~~Missing required attachments;~~
- ~~Unacceptable file types;~~
- ~~Binary data files that are larger than FERC's eFiling electronic document size limit;~~
- ~~Missing required data, such as Tariff Identifier and Filing Identifier;~~

~~•Conflicting and/or inconsistent data, such as Tariff Identifier and Filing Identifier; and,~~
~~•Missing/invalid Tariff Record data as determined by the Type of Filing.~~

If the XML file is malformed and cannot be read, to the extent OSEC is able to identify the resulting error messages, the error messages will be provided to the Tariff Submitter as part of the OSEC Rejection e-mail. The Tariff Submitter is responsible for researching the nature of the XML error messages at locations such as www.w3.org (i.e.: http://validator.w3.org/docs/errors.html).

- **Security Specifications**

Tariff Submitters are responsible for security of the Company ~~Login number~~ Identifier's password and all data contained in their filing that resides on their internal systems. The Company Identifier is public information.

Electronic transfer of the ZIP file is via the FERC eFiling portal using secure login (from eRegistration) and HTTPS for User interaction, and data transfer using a web browser. Refer to FERC eFiling specifications for minimal requirements of browsers using FERC web pages located at www.ferc.gov.

Data security at FERC is the responsibility of FERC.

- **Testing Guidelines**

FERC will provide a facility/function that will receive an eTariff XML filing package and verify it can be opened and parsed, and, if the appropriate data is provided, it will validate data content against production data. This facility will be available for use at any time. ~~It will not validate data content or other FERC business processing.~~ Information on how to access and use this testing facility ~~will be made~~is available at www.ferc.gov.

~~Other testing of further system functions may be provided during the transition period when eTariff is being developed and finalized inside FERC, e.g., the type of testing that was allowed during the eTariff Field Software prototype effort. This additional testing capability would only be available for a specific, pre-defined amount of time during FERC system development.~~

- **Maintenance**

The eTariff XML schema and associated code definition and downloadable CSV files will be maintained on the FERC website. Significant changes to any of these items will follow normal FERC notice/comment process. This process will

also indicate the effective date of the change, and whether there will be a transition period.

Revisions to the eTariff XML schema code definition files will be posted in downloadable XSD and PDF formats located at www.ferc.gov. In the event of a discrepancy between the PDF and XSD files, the XSD file shall take precedence.

Revised code definition files will be posted in downloadable CSV file and may be available in a PDF file on FERC's website located at www.ferc.gov.

FERC will not certify or will not support software that Tariff Submitters may develop or purchase. Owners of these software packages are responsible for their maintenance and ensuring that any required eTariff XML schema and/or code revisions posted by FERC are properly recognized by such software.

XML Schema Version 1

Set forth below is Version 1 of the XML Schema that must be used to submit a Tariff Filing through FERC's eFiling / eTariff Portal.

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema id="ferc_tariff_filing" targetNamespace="http://ferc.gov/etariff.xsd"
elementFormDefault="qualified" xmlns="http://ferc.gov/etariff.xsd"
xmlns:xs="http://www.w3.org/2001/XMLSchema" >
 <xs:element name="document">
  <xs:complexType>
   <xs:choice minOccurs="1" maxOccurs="1">
    <xs:element name="ferc_filing_data" minOccurs="1" maxOccurs="unbounded">
     <xs:complexType>
      <xs:sequence>
       <xs:element name="schema_version" type="xs:string" nillable="true"/>
       <xs:element name="company_id" type="xs:string" nillable="true"/>
       <xs:element name="tariff_id" type="xs:integer" nillable="true"/>
       <xs:element name="tariff_title" type="xs:string" nillable="true"/>
       <xs:element name="filing_id" type="xs:integer" nillable="true"/>
       <xs:element name="filing_title" type="xs:string" nillable="true"/>
       <xs:element name="filing_type" type="xs:integer" nillable="true"/>
       <xs:element name="associated_filing_id" type="xs:integer" nillable="true"/>
       <xs:element name="validation_email" type="xs:string" nillable="true"/>
       <xs:element name="pay_confirm_code" type="xs:string" nillable="true"/>
       <xs:element name="suspend_motion" type="xs:string" nillable="true"/>
       <xs:element name="attachment_data" minOccurs="1"
maxOccurs="unbounded">
        <xs:complexType>
         <xs:sequence>
          <xs:element name="att_ref_code" type="xs:integer" nillable="true"/>
          <xs:element name="att_desc" type ="xs:string" nillable="true"/>
          <xs:element name="att_waiver_request" type="xs:string" nillable="true"/>
          <xs:element name="att_binary_data" type="xs:base64Binary" nillable="true"
/>
          <xs:element name="att_filename" type="xs:string" nillable="true"/>
          <xs:element name="att_content_type_code" type="xs:integer"
nillable="true"/>
          <xs:element name="att_security_level" type="xs:string" nillable="true"/>
         </xs:sequence>
        </xs:complexType>
       </xs:element>
       <xs:element name="record_data" minOccurs="0"  maxOccurs="unbounded">
        <xs:complexType>
         <xs:sequence>
```

```
            <xs:element name="record_id" type="xs:integer" nillable="true"/>
            <xs:element name="option_code" type="xs:string" nillable="true"/>
            <xs:element name="record_title" type="xs:string" nillable="true"/>
            <xs:element name="record_content_desc" type="xs:string" nillable="true"/>
            <xs:element name="record_version_num" type="xs:string" nillable="true"/>
            <xs:element name="record_narrative_name" type="xs:string"
nillable="true"/>
            <xs:element name="collation_value" type="xs:integer" nillable="true"/>
            <xs:element name="record_parent_id" type="xs:integer" nillable="true"/>
            <xs:element name="proposed_effective_date" type="xs:date"
nillable="true"/>
            <xs:element name="priority_order" type="xs:integer" nillable="true"/>
            <xs:element name="record_content_type_code" type="xs:integer"
nillable="true"/>
            <xs:element name="record_binary_data" type="xs:base64Binary"
nillable="true"/>
            <xs:element name="record_plain_text" type="xs:string" nillable="true"/>
            <xs:element name="record_change_type" type="xs:string" nillable="true"/>
            <xs:element name="associated_filing_id" type="xs:integer" nillable="true" />
            <xs:element name="associated_record_id" type="xs:integer" nillable="true"
/>
            <xs:element name="associated_option_code" type="xs:string"
nillable="true" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
 </xs:element>
</xs:choice>
</xs:complexType>
</xs:element>
</xs:schema>
```

Note: The XML Schema definition language (XSD) defines four attributes for use in XML instance documents, indicated by the http://www.w3.org/2001/XMLSchema-instance namespace. Information regarding these four attributes is located at http://msdn2.microsoft.com/en-us/library/ms256207.aspx and http://www.w3.org/TR/xmlschema-1/. The eTariff specifications contained in this document utilize the nil="true" attribute to indicate an empty (null) numeric element. It has been determined that some XML software tools do not support the nil=”true" attribute. The software

developer should thoroughly investigate the capabilities of their development tool sets to ensure that they support the nil=”true” attribute.

COMMENTS

Quadrant: Wholesale Electric Quadrant

Minor Correction: MC10019

Submitted By: Ed Skiba

Date: August 11, 2010

I've reviewed the Minor Correction MC10019 and would like to make the following comments for consideration by the WEQ EC before it takes action on the Minor Correction.

- The header and footer of the implementation guide should reference the WEQ Business Practice Standards rather than the WGQ standards.
- It is unclear as to which version of the WEQ standards these changes will apply. Do the changes need to be applied to Versions 2.0, 2.1 and 2.2?
- Page one of the Implementation Guide "WEW" should be changed to "WEQ"
- To match Implementation Guide for Electronic Filing posted on the FERC website the following minor changes should also be made:
    - On page 13 under Attachment Reference Code in the last sentence, which was added, "Provided" should be changed to "provided".
    - On page 17 under the Example for Tariff Record Collation Value, the Collation values should be vertically aligned.
    - On page 36 in the Note under Withdraw in the second sentence starting with "The withdraw category of Type", the word "withdraw" should be changed to "Withdraw".

Minor Correction as submitted by M. Goldberg, ISO New England

From: Goldberg, Matthew [mailto:mgoldberg@iso-ne.com]
Sent: Thursday, May 27, 2010 5:11 PM
To: Rager,Denise
Cc: Ed Skiba
Subject: Minor Correction Request

Denise,

We've been recently reviewing the NAESB Standards (attached) and have come across two portions of the WEQ-001 Standards that require minor correction to be applied to version 002.2.

The first portion that requires minor correction is the "numbering convention" for WEQ001-2.10 through 001-2.14. These requirements actually follow WEQ001-2.1.9. Therefore, they should be numbered WEQ001-2.**1.**10, -2.**1.**11, -2.**1.**12, -2.**1.**13, and -2.**1.**14

- Correcting this will harmonize the make correct the current number convention and avoid problems later, as additional Business Practices Standards are developed under WEQ001-2. (Currently, they only go so high as WEQ001-2.6).

The second portion that requires minor correction is the "placement" of WEQ001-2.5.7 through 2.5.9. They are currently located in the Section on "Other Service Definitions" (Section WEQ001-2.6) instead of the Section on "Ancillary Service Definitions" (Section WEQ001-2.5).

After discussion with Ed Skiba, Midwest ISO;

It looks like that Section 001-2.5 is trying to distinguish between pro forma Ancillary Services Definitions (2.5.1-2.5.6 & 2.5.10) and "Other Service" Definitions (2.5.7-2.5.9).

I would agree that we don't need the "Other Service Definitions" introductory paragraph, because Sections 2.5.1-2.5.6 & 2.5.10 specific *in the definitions themselves,* that they are part of the pro forma tariff.

Therefore, I agree with the proposal that deleting the Other Service Definitions paragraph, and moving Section 2.5.10 so that it comes after 2.5.9 is the least disruptive way of making this minor correction.

Please don't hesitate to contact me if I can provide more information or if I need to submit as a part of a form.

Matt

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via email and posting

TO: Wholesale Electric Quadrant (WEQ) Members and Interested Industry Parties
FROM: James Culliton, NAESB Counsel
RE: WEQ Request for Formal Comments
DATE: July 29, 2010

An industry comment period begins today, July 29, 2010 and ends on August 30, 2010 for the following WEQ recommendation, as posted on the NAESB web site:

Recommendation:
WEQ 2010 Annual Plan Item 1.a.i – Interim Solution for Parallel Flow Visualization Link: http://naesb.org/pdf4/weq_2010_api_1ai_rec.doc

All interested parties, regardless of membership status within NAESB, are eligible to submit comments for consideration. The WEQ Executive Committee (EC) will meet to review the recommendation and industry comments at the close of the comment period and consider the recommendation for vote. This meeting will be open to the public and those who submit comments are encouraged to attend.

All comments received by the NAESB office by end of business on August 30, 2010 will be posted on the Request and Standards Activity Applicable to the WEQ page (http://naesb.org/weq_request.asp) and forwarded to WEQ EC members for consideration. If you have difficulty downloading the recommendation link above, please call the NAESB office at (713) 356-0060.

Best Regards,

James Culliton

cc: Rae McQuade, President

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE

For Quadrant: **Wholesale Electric Quadrant**
Requesters: **Business Practices Subcommittee**
Request No.: **WEQ 2010 AP Item 1.a.i**
Request Title: **Interim Solution for Parallel Flow Visualization**

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[1]
	Status Quo

2. TYPE OF DEVELOPMENT/MAINTENANCE

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

3. RECOMMENDATION

SUMMARY:

The recommendation provides for an interim solution for establishing transmission service priorities for intra-BA delivery of generation to load for those entities that do not have a regulatory-approved market-based congestion management process using flowgate allocations to assign firm and non-firm market flow priorities. This recommendation is intended to be an interim solution for establishing generator priorities in support of the NERC IDC Change Order 283 (scheduled to move into a staging environment on November 1, 2010) and will not be used for production TLR curtailments. The Business Practices Subcommittee is submitting this recommendation with the understanding that the standards will be held in abeyance and not filed with the Commission. The subcommittee anticipates a final solution will be developed by November 1, 2011.

[1] The WEQ BPS passed a motion on July 15, 2010, to establish a November 1, 2011, sunset date for the Standards being submitted in this recommendation.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: **Wholesale Electric Quadrant**
Requesters: **Business Practices Subcommittee**
Request No.: **WEQ 2010 AP Item 1.a.i**
Request Title: **Interim Solution for Parallel Flow Visualization**

ASSUMPTIONS:

- It is not expected that the changes in this recommendation to the NAESB Business Practices by themselves will require changes to how current FERC-approved OATTs are administered.
- The assignment of firm and non-firm transmission service priorities for generators within a BA shall follow that Transmission Service Provider's transmission tariff under which that generator operates.
- The Final Solution for Parallel Flow Visualization will be filed with FERC and will replace these interim solution Business Practice Standards.

RECOMMENDED STANDARDS:

000-1 ABBREVIATIONS AND ACRONYMS

The abbreviations and acronyms listed in the following table are used in the Business Practice Standards and shall have the meaning specified in the table.

Abbreviation / Acronym	Meaning
SDX	System Data Exchange

000-2 DEFINITION OF TERMS

The terms listed in the following table are used in the Business Practice Standards and shall have the definitions specified in the table.

TERM	DEFINITION
Intra-BA Tag	Information describing a physical Transaction and its participants sourcing and sinking within the same BA using RFI format.

WEQ-008 Transmission Loading Relief - Eastern Interconnection Standards

Business Practice Requirements

008-1 GENERAL REQUIREMENTS REGARDING USE OF INTERCONNECTION-WIDE TLR PROCEDURES

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE
For Quadrant: Wholesale Electric Quadrant
Requesters: Business Practices Subcommittee
Request No.: WEQ 2010 AP Item 1.a.i
Request Title: Interim Solution for Parallel Flow Visualization

008-1.7 REPORTING TRANSMISSION SERVICE PRIORITIES FOR USE BY THE IDC

The following requirements provide options for reporting transmission service priorities to the IDC in the staging environment.[2] These options will have a sunset date of November 1, 2011.

008-1.7.1 Assignment of transmission service priorities can be done via a generator priority assignment or a market flow assignment.

008-1.7.1.1 Generator Priority Assignment

The BA shall identify the transmission service priority for all generators located in their BA and modeled in the IDC. Firm and non-firm transmission service priorities associated with generators shall be submitted via the SDX and/or Intra-BA Transactions. The default IDC treatment of generator transmission service priority level is firm.

008-1.7.1.1.1 Generator Priorities Submittal via the SDX

Generator priorities may be submitted via the SDX. The transmission priority for the generator will be submitted as either a percentage or MW value according to the timing requirements of the SDX data updates.

008-1.7.1.1.2 Generator Priorities Submittal via Intra-BA Transactions

BAs may use Intra-BA Transactions to represent non-firm PTP and network service . A generator MW output provided via the SDX will be subtracted by the scheduled MW of the tags mapped to the generator, whether these are Intra-BA Transactions or e-Tags. Intra-BA Transactions will follow the same update requirements as NERC Interchange Transactions.

008-1.7.1.2 Market Flow Assignment

For those entities that have a regulatory-approved market-based congestion management process using flowgate allocations to assign firm and non-firm market flow priorities (which are comparable to the generator assignment priorities for those entities not using flowgate allocations) a default of firm will be used by the IDC.

4. SUPPORTING DOCUMENTATION

a. Description of Request:

WEQ 2010 AP Item

1. Develop business practice standards as needed to complement reliability standards
   a. Parallel Flow Visualization/Mitigation for Reliability Coordinators in the Eastern Interconnection.

[2] The staging environment is the IDC test environment that will be used to determine whether the NERC IDC Change Order 283 should be moved into production.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE

For Quadrant:	**Wholesale Electric Quadrant**
Requesters:	**Business Practices Subcommittee**
Request No.:	**WEQ 2010 AP Item 1.a.i**
Request Title:	**Interim Solution for Parallel Flow Visualization**

i. Develop interim solution for Parallel Flow Visualization to support November 1, 2010 implementation (into the IDC Staging Environment) of IDC Change Order 283.

b. Description of Recommendation:

The recommendation provides a mechanism for establishing generator transmission priorities for those entities that do not have a regulatory-approved market-based congestion management process using flowgate allocations to assign firm and non-firm market flow priorities.

c. Business Purpose:

Provide an interim solution for submitting priorities to support the IDC Change Order 283, which will be implemented in the IDC staging environment on November 1, 2010.

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

On July 8, 2010, the WEQ BPS Leadership met with NAESB Management, WEQ Leadership and NERC staff to discuss the Parallel Flow Visualization project and the need for NAESB to provide priorities to NERC by November 1, 2010. The WEQ BPS Leadership was encouraged to develop an interim solution if they felt a final solution could not be reached and vetted through the NAESB standards process by November 1, 2010. The WEQ BPS agreed to develop an interim solution during the July 15-16, 2010, meeting with the understanding that the interim solution would be in a staging environment, would not be used for production TLR curtailments, and would have a sunset date of November 1, 2011.

Supporting Documents

July 2, 2010, letter from Andy Rodriquez to Rae McQuade

July 12, 2010, letter from BPS Co-Chairs to WEQ BPS Exploder List

July 15-16, 2010 meeting minutes

July 23, 2010 meeting minutes

IDC Change Order 283 Revision 3.0

Interim Solution Work Paper

Motions from the WEQ BPS meeting for Parallel Flow Visualization

The following options are currently under consideration for the final solution

- Tag All Non-firm
- Generator Prioritization
- Flowgate Allocation

NERC
NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION

July 2, 2010

Rae McQuade
President
North American Energy Standards Board
801 Travis Street
Suite 1675
Houston, TX 77002

Dear Ms. McQuade:

I understand that there have been some questions raised regarding the Parallel Flow Visualization effort and NERC's related project, IDC Change Order 283. This letter offers NERC staff's opinion on the situation. Please feel free to forward on to your stakeholders as you see fit.

NERC staff understands the industry's desire to consider improvements to the TLR process. The TLR process has been in existence for quite some time, and although its business rules are governed primarily at NAESB, we encourage the industry to continually evaluate its performance to ensure that it is providing value and to identify improvements as they are needed.

However, we still have an interest in pursuing improvements to the efficacy of the Interchange Distribution Calculator. Change Order 283 has been developed to improve the quality and granularity of the information the IDC uses, thereby improving both its accuracy and the effectiveness of its proposed congestion actions. This is an important part of ensuring Reliability Coordinators have the tools they need to perform their regular duties, and as such, we have allocated funding for its development.

In our response to the FERC Notice of Inquiry regarding the Transmission Loading Relief Reliability Standard and Curtailment Priorities (RM10-9-000), we explained what improvements were being made as a part of Change Order 283, and provided an estimated schedule of completion. We also described the ongoing NAESB effort to address the related prioritization of network service through its business practices, and how that work was expected to coincide with the reliability-related improvements being made as part of Change Order 283. However, we also cautioned that the work NAESB produces could result in additional costs and/or time before the prioritization issue is fully addressed.

There are approximately four months remaining before the testing of the Change Order is scheduled to begin. We do not anticipate any delays in meeting the November 1 target referenced in our NOI response. Given this short time frame, it is essential that NASEB select an option for moving forward so as not to delay the IDC changes needed that improve reliability. NERC staff is not advocating any one of the following options, but we believe NAESB will need to have one of these options in place on or before November 1.

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1.) Choose one of the three options identified by the Business Practices Subcommittee. If the chosen option cannot be integrated into the scope of CO 283 (i.e., it deviates so significantly from what was contemplated when the Change Order was written that additional expenses will be incurred and time required to implement the option), additional funding will need to be identified to cover the added costs, and the changes may need to be incorporated after the November 1 start.

2.) Choose an interim option, to be replaced later with one of the three BPS identified options. One option that could be considered would be to allow each transmission service provider to define their own priorities, based on their tariffs. To the extent entities need additional information, they could work with their Reliability Coordinator to either obtain that information and/or require certain transactions to be tagged and modeled in the IDC. The subsequent replacement option would likely need to be treated as a new Change Order and funding would need to be identified.

If no option is chosen, it is our expectation that Change Order 283 will be implemented using the current prioritization model (i.e., untagged generation inside a BA is treated as firm Network and Native Load service). This will maintain the status quo with regard to curtailment priority and only address the changes needed for reliability improvement. Transmission Service Providers will be responsible for ensuring they comply with their own transmission tariff, up to and including taking additional curtailment and/or redispatch actions as appropriate, and we will issue a formal statement to explain this. If NAESB identifies an option in the future, it would likely need to be treated as a new Change Order, and funding would need to be identified.

In conclusion, we would like to state that we support NAESB, its process, and its efforts to improve TLR methods. Obviously, we are familiar with the challenge of finding consensus within a stakeholder body. We are confident that ultimately, NAESB will succeed in doing so.

Should you or your stakeholders have any further questions, please do not hesitate to contact me.

Sincerely,

Andrew Rodriquez
Manager of Business Practice Coordination

cc: Mr. Herbert Schrayshuen, NERC
Mr. Gerry Adamski, NERC
Mr. Larry Kezele, NERC
Mr. Jim Busbin, Southern Company

Comments Submitted by the WEQ BPS

FORMAL COMMENTS

Quadrant:	Wholesale Electric Quadrant
Recommendations:	WEQ 2010 AP Item 1.a.i – Interim Solution for Parallel Flow Visualization
Submitted By:	WEQ BPS Co-Chairs (Jim Busbin and Ed Skiba) on behalf of the WEQ BPS
Date:	August 10, 2010

The WEQ BPS met on August 6, 2010 and finalized the work paper for the Parallel Flow Visualization Interim Solution. During the review, the subcommittee identified two consistency issues that should be incorporated by the WEQ Executive Committee into the Recommended Standards prior to approving the recommendation.

1. In WEQ-000-2 the term *Intra-BA Tag* should be changed to *Intra-BA Transaction*.
2. In WEQ-008-1.7.1.1.1 in the second sentence *transmission priority* should be change to *transmission service priority*.

Though not affecting the recommended standards it should be noted that there are some references in the Summary, Assumption, and Supporting Documentation sections of the recommendation that use the term *final solution*. For the Parallel Flow Visualization Interim Solution work paper the subcommittee agreed to change all references of *final solution* to *permanent solution*. The WEQ EC may also want to consider applying this conforming change to the recommendation.

TO: NAESB WEQ Executive Committee
FROM: NAESB WEQ Task Force - Scope Coordination of Transmission Service Across Multiple Transmission Systems
RE: Guidance for NAESB OASIS Subcommittee
DATE: June 25, 2010

During the February 2, 2010, meeting of the WEQ Executive Committee, a task force was established to give guidance to the WEQ EC regarding the scope of work to be performed by the WEQ OASIS Subcommittee for Annual Plan Item 2(a)(iii) on standards to support service across multiple transmission systems (SAMTS) The following members were appointed to the Scoping Task Force:

Chair:
Alan Pritchard (Duke Energy)
Vice-Chair:
Narinder Saini (Entergy)
Other Members:
Heather Burnette (Tennessee Valley Authority)
James Eckelkamp (Progress Energy)
Barry Green (EPSA)
Shah Hossain (Westar Energy)
Rob Lamoureux (Midwest ISO)
James Manning (NCEMC)
Marcie Otondo (Arizona Public Service)
Barbara Rehman (Bonneville Power Administration)
Paul Sorenson (OATI)
Roy True (ACES Power Marketing)
JT Wood (Southern Company)

The Scoping Task Force met via teleconference in 2010 on March 22, March 31, April 26, May 19, June 1, June 14, June 15 and June 18. Meetings are documented on the WEQ EC website.

The Scoping Task Force reviewed excerpts of comments on this subject filed with FERC under docket RM05-25 and also Commission Determinations in the subsequent FERC Orders 890 and 890-A. The Task Force also reviewed excerpts of comments on this subject filed with FERC under docket RM05-5-013 and also Commission Determination in the subsequent FERC Order 676-E.

A recommendation has been developed which provides guidance to the WEQ OASIS subcommittee. The Task Force believes that the recommendation addresses the key issues raised in the FERC proceedings while providing transparency to the market and flexibility to Transmission Customers.

The Scoping Task Force considered, at a high level, several methodologies by which the coordination could be accomplished. The consensus of the group was to opt for the simplest in order to expedite implementation. Doing so, however, necessitated a number of compromises; the attached scope document explains in greater detail the proposed methodology. In brief, it involves each affected Transmission Provider evaluating its portion of the linked request independently, with the opportunity for a true-up by the Transmission Customer once all evaluations are completed.

The Scoping Task Force recommends adoption of the attached scope document and submission of the recommendation to the OASIS subcommittee as guidance for development of related business practices.

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Scope Recommendation
Coordination of Transmission Service Across Multiple Transmission Systems

Basic Process:

The basic process recommended for coordination of requests for Transmission Service across multiple Transmission systems relies on the Transmission Customer, after submitting and monitoring requests on multiple systems, to communicate true-up information to each of the multiple Transmission Providers. The steps of the basic process are as follows:

Step 1: Submission of Requests for Transmission Service

A Transmission Customer will be permitted to submit a set of requests on multiple transmission systems and group them together. The Transmission Customer will have the understanding that one or more of the requests may not be accommodated in full as requested. In such an event, the Transmission Customer will not be required to reserve the full requested capacity on the remaining Transmission Service request(s). If one or more Transmission Provider(s) cannot accommodate the requested capacity, the Transmission Customer may adjust capacity on any other Transmission Service request of the linked group. For discussion purposes, the group of Transmission Service requests is referred to as the "linked group" and the process of adjusting capacity of Transmission Service requests in the "linked group" is referred to as "true-up."

Step 2: Initial Processing of Transmission Service Requests (Pre-true-up)

Each Transmission Provider that receives a request that is part of a linked group shall process that request in the order queued on the Transmission Provider's system as it would for any other request for Transmission Service.

For each request that is part of a linked group, the Transmission Provider and Transmission Customer shall meet the timing requirements outlined in Table 4-2. Upon completion of this phase of the process, each request will proceed to a final state (referred to as the "pre-true-up final state").

Once the pre-true-up final state is completed on a Transmission Provider's system, the Transmission Provider may continue processing the queue[i].

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Step 3: Final Processing of Transmission Service Reservations (True-up)

When all of the requests of the linked group are in a pre-true-up final state, the Transmission Customer shall review the pre-true-up final state of each of the requests and determine the final requested capacity of each request, as follows:

1. If, in Step 2, one or more Transmission Provider(s) was not able to accommodate the full amount of the requested capacity, the Transmission Customer is permitted, but not required, to lower the amount of reservation capacity on any and all of the reservations in the linked group.

2. If, in Step 2, all of the Transmission Providers were able to accommodate the full amount of the requested capacity, the Transmission Customer is not permitted to lower the amount of the reservation capacity on any of the reservations in the linked group.

Upon deciding the final capacity for each of the reservations in the linked group, the Transmission Customer is required to inform each Transmission Provider of the amount of true-up capacity for the reservation(s) on that Transmission Provider's system. In response to the Transmission Customer's communication, the Transmission Provider shall finalize the amount of capacity for such reservation(s).

This completes the coordination process and the linked group is no longer linked for any further processing.

Additional Guidance:

1. Requests
    a. Unless otherwise prohibited, Transmission Provider(s) will be required to allow any combination of the following Transmission Services in a linked group:
        i. Yearly Firm PTP[ii]
        ii. Monthly Firm PTP
        iii. Monthly Non-Firm PTP
        iv. Firm Network Service
        v. Monthly Non-Designated (Secondary) Network Service
    b. Pre-confirmation is required for short-term PTP requests
        i. These pre-confirmed requests shall be treated as any other pre-confirmed Transmission Service request with respect to queue position and preemption (Table 4-3)
        ii. Final true-up will permit changes in capacity on pre-confirmed reservations
    c. The Transmission Customer must provide the following for each request:

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i. A unique identifier that is assigned to the linked group (similar to the way a unique identifier is established for each e-tag)
ii. The following information about each of the other requests for transmission service that are part of the linked group:
    1. Transmission Provider
    2. OASIS number of the request for Transmission Service

    Since the request process will involve submitting sequential requests on multiple Transmission Providers and not all of this information will be known until the last request has been submitted, the OASIS subcommittee should address the following issues:
        a. Make provisions after initial submission of a request for Transmission Service for adding or updating information about the other requests that are part of the linked group
        b. Establish a submission deadline for adding or updating such information

d. Queue submission should be subject to the same requirements as if the request were not part of a linked group (timing tables do not need to be changed)
e. The Transmission Customer must be permitted to include any number of requests in a linked group.
    i. Permit single or multiple requests on one Transmission system to be linked with single or multiple requests on other Transmission systems
    ii. Permit one or more requests to be a concomitant request
    iii. Permit requests of different product types
    iv. Permit request with different durations (start/stop times)
    v. Permit requests which are not on adjoining transmission systems
f. There should be no requirement for any Transmission Provider to establish or offer new transmission products (e.g., should not require a Transmission Provider to establish a heretofore optional product such as an "EXTENDED" product)

2. Processing of requests prior to True-Up
    a. Each Transmission Provider will evaluate and respond to the request on its OASIS as if it were not part of a linked group
    b. Response timing by both the Transmission Provider and the Transmission Customer shall be the same as if the request were not part of a linked group and shall comply with Table 4-2
    c. The process should permit coordinated studies, in accordance with the pro-forma OATT, but it should not require performance of coordinated studies and it should not define the study process itself.

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d. Study timing, creditworthiness/deposits, transmission upgrade agreements, etc. would be processed as if the request were not part of a linked group.
e. There should be no requirement for any Transmission Provider to monitor and/or take action in response to requests on other OASIS systems (e.g. the NAESB Business Practice Standards should not require a Transmission Provider to recognize that a request that is part of a linked group has been confirmed on another OASIS system.) In the event that the OASIS subcommittee determines that such requests cannot be coordinated without establishing such a requirement, the practice should establish a mechanism that facilitates communication between OASIS systems.
f. In addition to the routine validation done for each request, each Transmission Provider will be limited to performing validation that the product requested on the Transmission Provider's system is an allowable "linked" product as identified in item 1.a. There should be no requirement for a Transmission Provider to validate consistency of product names and/or attributes across requests which are part of a linked group.
g. Transmission Providers may not deny a request for any of the following reasons:
    i. A request should not be denied because it has a different time zone than another request in the linked group.
        1. With regard to time zone differences, the scope of work for this annual plan item shall be limited to addressing time zone differences in NITS on OASIS Business Practice Standards.
    ii. A request should not be denied because it has a different requested MW capacity than another request in the linked group.
    iii. A request should not be denied because it has a different product type than another request in the linked group.
    iv. A request should not be denied because it has different start/stop time(s) than another request in the linked group
    v. A request should not be denied because requests in the linked group are not contiguous. (Linked groups are not required to be comprised of requests on adjoining systems.)
h. Once a request has been confirmed the following actions are prohibited until after completion of the true-up:
    i. No release of parent firm capacity on a firm redirect that is a part of the linked group
    ii. No subsequent resale of a reservation that is part of the linked group
    iii. No subsequent redirect of a reservation that is part of the linked group
    iv. No release of DNR capacity of a concomitant request that is part of the linked group

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v. No tagging of a reservation that is part of the linked group
vi. No processing of a renewal request of a reservation that is part of the linked group

i. Right of First Refusal (ROFR)(Table 4-3) prior to true-up
   i. When a request which is part of a linked group triggers a ROFR offering to an existing reservation on a constrained interface, the process should accommodate the process timing to work through the ROFR process (extend response time).
   ii. Confirmed requests prior to true-up will be considered as Confirmed with respect to ROFR eligibility as set forth in Table 4-3 (shall not be considered a Pending request). Should the Transmission Customer opt to submit a MATCHING request in response to an ROFR, the MATCHING request will not become part of the linked group.
   iii. Request of type "MATCHING" shall not be a valid request type in a linked group.

3. True-Up
   a. Notification by Transmission Customer if all requests were confirmed with the requested capacity
      i. The Transmission Customer must notify the Transmission Provider for each request in the linked group that the true-up has been completed and no adjustment to capacity is to be made by the Transmission Customer.
   b. Notification by Transmission Customer if one or more of the requests was not confirmed with the requested capacity
      i. The choice to true-up is a Transmission Customer's choice only. If one or more Transmission Provider(s) could not accommodate a requested capacity, the Transmission Customer may request to adjust capacity on any and all requests/reservations to values lower than the amount granted in the pre-true-up process, or may request nullification of all reservations in a linked group. The Transmission Customer may elect any combination of capacity values as long as the adjusted value of each reservation does not exceed the capacity granted by the respective Transmission Provider in the pre-true-up step. (For example, if three requests were linked for 125 MW each, and two of the Transmission Providers granted 125 MW but the third counteroffered at 107 MW, the Transmission Customer could rebid the 107 MW to 103 MW and adjust one of the other reservations to 100 MW and adjust the other to 103 MW. The Transmission Customer could also choose to withdraw the counteroffered request and adjust the other two requests/reservations to zero.)

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1. The Transmission Customer must communicate its true-up decisions to each Transmission Provider after all requests are in a pre-true-up final state. The OASIS subcommittee will determine the proper timing and communication requirements.

2. The true-up mechanism may be some form of a counter-offer/release type mechanism. True-up will apply only to capacity.

ii. The true-up process shall not require a Transmission Customer to ultimately reserve Transmission Service in excess of the lowest capacity granted by any Transmission Provider.

iii. The true-up process shall not require any Transmission Provider to accept a reservation which is not obtainable by other Transmission Customers (e.g., require a weekly request to have different MW values for different days of the week if all other Transmission Customers are required to profile a single MW value for each week).

c. Transmission Provider Response to a true-up notification

i. Upon notification from the Transmission Customer, the Transmission Provider will set the capacity granted to the value requested by the Transmission Customer and will move the status to a post-true-up final state.

1. Upon completion of the true-up, some reservations may be annulled (full release of commitment to purchase transmission capacity) or recalled (partial release of commitment to purchase transmission capacity) and the agreement and corresponding deposit amount would be finalized/amended.

2. Upon completion of the true-up, the Transmission Provider will release restrictions on processing of reservations that are part of the iinked group

a. The Transmission Provider will release parent firm capacity on all firm redirects that are part of the linked group

b. The Transmission Provider will remove prohibition on resale of reservations that are part of the linked group

c. The Transmission Provider will remove prohibition of redirects of reservations that are part of the linked group.

d. The Transmission Provider will release DNR capacity of concomitant requests that are part of the linked group

e. The Transmission Provider will permit tagging of reservations that are part of the linked group

f. The Transmission Provider will initiate processing of queued renewal requests of reservations that are part of the linked group

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ii. Response times will be based on the current response timing table (table 4-2) or as determined by the OASIS subcommittee.

d. Rollover Rights
   i. True-up will not begin until the rollover rights status is known (if rollover rights are not granted, the other reservations in the linked group may be terminated or adjusted via the true-up process).

4. After True-up
   a. The coordination procedure will extend only for evaluation and processing of requests in a linked group. After initial coordination is completed (true-up), each of the resulting reservations shall be treated as any other reservation.
      i. Renewal requests to exercise rollover rights may be combined in a subsequent linked group. Scope will otherwise not include changes to the granting or management of rollover rights.
   b. Competition after True-Up
      i. After true-up, if one of the reservations from the linked group is subject to competition (Table 4-3) on one OASIS system, the outcome of that competition should have no impact on the statuses of the remaining reservations of the linked group. That is, loss of one reservation of a post-true-up confirmed reservation does not invalidate the remaining reservations of the original linked group, nor does the extension of one reservation of a linked group via a MATCHING request give the Transmission Customer the right to extended duration and/or capacity on the remaining components of the linked group.
5. Miscellaneous
   a. As with other NAESB Business Practice Standards, this process shall include provisions for auditing the process.
   b. The Business Practice Standard shall permit regional alliances to establish a mechanism wherein a single request is processed for Transmission Service on multiple Transmission Providers, as is done by WesTTrans. Such a mechanism must allow coordination with requests in a linked group, as will be provided in the NAESB Business Practice Standards, that extend beyond the boundaries of the alliance.
   c. NITS on OASIS
      i. DNR requests should not be denied due to time zone differences between a network service request and the corresponding (required) request(s) on other Transmission Provider system(s).
         1. Coordination of requests across multiple time zones is not a new issue. However, when a Transmission Customer requesting a DNR must show

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firm transmission capacity on a system in a different time zone, a timing mismatch may occur. This new NAESB Business Practice Standard should not require offering of additional products in order to establish an identical hour-by-hour match of reservations on OASIS systems that serve different time zones.

2. It should, however, establish a prohibition on denial of a DNR because of a time-zone induced hour-by-hour mismatch.
3. The OASIS subcommittee may also wish to review and modify the definitions of "FIXED", "SLIDING" and "EXTENDED" in order to permit Transmission Providers to offer narrowly defined products that accommodate time-zone specific products.
4. Transmission Customers should not be forced to procure an additional one hour of Transmission Service on a non-firm basis to transfer a firm energy source for which it has long-term firm arrangements because not all Transmission Providers offer firm hourly product and not all Transmission Providers offer short-term firm in all future periods.

ii. The OASIS subcommittee should establish Transmission Provider and Transmission Customer response times for the network service product types which are allowed to be included in a linked group (see Additional Guidance item 1.a.).

[i] One advantage of this methodology is that it allows Transmission Providers to complete their evaluation of their portion of the linked group, have it confirmed by the Transmission Customer subject to true-up, and then move on with other requests in their queue. However, this simplification introduces into the queue processing the possibility that some requests may get denied due to transmission capability being held during joint processing of a linked group, and, if the capability is later released during the true-up, it would get allocated to a Transmission Customer with a later request.

Attached to this report is a paper prepared by Barry Green on behalf of EPSA which proposes and explains a new state of Provisionally Denied. The proposal would add some complexity to the queue processing procedures but preserves the first come/first served principal. It was beyond the scope of the Scoping Task Force to evaluate the pros and cons of this approach but

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the Task Force recommends that the OASIS Subcommittee evaluate the merits of incorporating a new state of Provisionally Denied. The draft standards developed by the OASIS Subcommittee will incorporate the results of this evaluation.

[ii] If a Conditional Curtailment Option is offered, there may need to be additional true-up adjustments.

Discussion Paper for

The Scoping Task Force on Coordination of Transmission Service Across Multiple Transmission Providers

Processing of Requests

By Barry Green

Background:

During the conference call of May 19th the Task Force discussed the question raised in section 5 c (ii) of the work paper and reproduced below together with a comment that I had offered:

> If the process permits current queue processing by each TP individually with a true-up mechanism at the end such as in 2a above, there will be instances where a TP denies a request that was queued subsequent to the linked request because the TPs component of the linked request was confirmed in full and then, at the true-up time, reduces the confirmed linked request's capacity and offers the amount reduced as additional ATC. In this instance the queue processing is not delayed but the customer who was denied capacity has lost his queue position (refused for insufficient ATC) and must submit a new request to compete for the newly posted ATC. TC – generally OK. Is there any other recourse?

More specifically, I offered an example to illustrate the situation.

Customer 1 has submitted a linked request for 100 MW across TP A and B. TP A has accepted the request and the customer has confirmed it and TP B is still evaluating the request. On TP A's system the request is now in the state that we had called during the conference call "Confirmed but not Trued Up". TP A must assume that 100 MW has been purchased although depending on the response from TP B the ultimate transmission service purchased by Customer 1 could be anywhere between 0 and 100 MW. Also in this example, if Customer 1 ultimately purchases the 100 MW, then TP A has 0 ATC on this interface. While awaiting the response from TP B, Customers 2 and 3 each submit requests for 25 MW, in that order. After TP A has denied the request from Customer 2 but before the request from Customer 3 is processed, TP B completes its assessment and Customer 1 purchases only 75 MW of service.

Therefore, depending on how the queue is processed, the additional 25 MW could be offered to either customer 2 or 3.

TP Suggested Approach:

Based on the TP suggestion contained in section 5 c (ii) above, customer 2 would have been denied service and when the 25 MW is freed up based on the true up of customer 1's request, it would be offered to customer 3.

Alternative Approach:

When TP A completes its assessment of customer 2's request, it is put in a state of "Provisionally Denied". If the assessment of customer 3's request is completed prior to the true up by customer 1 it too would be provisionally denied. When the true up is complete, TP A would return to the provisionally denied requests in its queue and deal with them in first come first served order, offering the service to customer 2 first.

Discussion:
During the May 19th conference call the TPs offered 2 reasons for preferring their approach. (This is not intended to preclude other reasons being offered as this discussion proceeds). One was the additional complexity that would result from my approach. The second was that the approach they suggested was analogous to the treatment of redirects. That is, if in the example above, customer 1 had fully confirmed its purchase of the 100 MW, customer 2 had requested 25 MW and been denied and then some customer had redirected 25 MW off of the interface, customer 3 would be granted the 25 MW and customer 2 would have no recourse.

My response to these two arguments is as follows.

I agree that my approach adds complexity to queue processing. I also acknowledge that I am not qualified to judge the degree of the additional complexity. I would suggest to the Scoping Task Force however, that if this were the only argument against this approach, I believe the Task Force should direct the OASIS Subcommittee to consider both of these approaches during their development of the Business Practice and report back to the EC on how substantial the additional complexity is and whether or not it is warranted.

On the redirect argument, I do not believe the analogy is appropriate. In the case of the redirect, customer 2 is denied service based on all of the information available to TP A at the time that it completes its assessment. The fact that new information becomes available after customer 2 is denied but before customer 3's request was processed, represents good fortune for customer 3, but is not something that can be anticipated or planned for. In the case of the linked transactions however, it is known that the 100 MW request, although technically confirmed, is uncertain. While TP A has to assume that the 100 MW is sold to customer 1 for the purpose of granting additional transmission service, it should take reasonable measures to plan for the true up process resulting in a sale of less than 100 MW. These "reasonable measures" might also benefit TP A. If there were no customer 3 in this example, following the true up, under the TP approach, TP A would passively post an additional 25 MW of ATC on the interface. However, if there is a provisionally denied queue, the TP would immediately accept customer 2's request for the 25 MW freed up by customer 1.

I suggest as well, two additional thoughts for consideration of the advantages of my approach. The first is a potential gaming issue. When customer 1 receives its response from TP B with the counteroffer of 75 MW, it will have some period of time to assess this counteroffer and true up its request. Under the TP suggested approach, if customer 1 is aware of where TP A is in

processing its queue, it could be in a position to determine whether customer 2 or 3 will be offered the incremental amount of service by rushing or delaying its confirmation. Under my approach the incremental amount of service would automatically be offered to customer 2.

The second is related to the FERC Order as reproduced below:

> All the transmission providers involved in a request across multiple systems should consider a request that requires studies across multiple systems to be a single application for purposes of establishing the deadlines for rendering an agreement for service, **revising queue status**, (emphasis added) eliciting deposits and commencing service. (890-1377)

During the conference call, JT Wood and I discussed at some length the status of a linked request that has been approved by TP A but is awaiting responses from one or more other TPs. From JT's point of view this is an accepted request and the customer is expected to confirm it in the appropriate time frame. OASIS would treat it as such, although separately acknowledging that the true up provisions are still "in play". While not objecting to the customer obligation to confirm, I argued that this was not really a confirmed request in the normal sense of the word because of the possibility of true up. For the purpose of the conference call we agreed to the term "Confirmed but not Trued Up", however the difference between the 2 approaches discussed above suggests that the differing views of the Confirmed State is more than a semantic difference. As can be seen from the highlighted quote from Order 890 Paragraph 1377, the intent is that these linked transactions be treated as a single request. While I do not object to the use of the term "confirmed" prior to the true up process if that results in some simplification of the queue handling procedures, that alone should not lead to a suboptimal treatment of queuing priorities.

I therefore recommend that our Scoping Task Force direct the OASIS Subcommittee to consider a process, such as the definition of a Provisional Denied status so that a Customer denied service while the requisite ATC is held in a Confirmed but not Trued Up state for a customer with a linked request pending on another system, be allowed to retain its queue position until the final disposition of such a request.

Barry Green

Requirements Specifications for Common Scheduling Mechanism for Energy Transactio

Proposal: Data Requirements will reference common list of calendar/date&time related descriptions.

Must include all calendar related items defined in PAP03 and PAP09
Time definitions relative to DR.

Requirements for Date and Time Usage

Type of Representation	Representative Instance	Sample Data
Absolute date/time	Effective start date Effective start date and time	11/1/2009 2009-11-01T01:00:00-Z
Absolute Periods (range)	Deployment Period	2009-11-01T01:00:00-Z/ 2009-11-02T24:00:00-Z
Relative date/time (time-point)	Reduction Deadline	30 minutes from a specified point in time
Recurring date/time	Market Closing	Every day at 12:00 noon
Absolute Interval	Meter Data Recording Interval System Frequency	Every 5 minutes 60 cycles per second
Absolute Duration	Outage Duration Minimum Run Time	2 days 4 hours

Relative Interval?

Date and Time Based Data Elements Utilized in Demand Response Program

Representative Instances	Description
Adjustment Window	The period prior to a Demand Response Event used for calculating a Baseline Adjustment.
Advance Notification	One or more communications to Demand Resources of an impending Demand Response Event transmitted in advance of the actual event.
Baseline Window	The window of time preceding and optionally following, a Demand Response Event over which electricity consumption data is collected for the purpose of establishing a Baseline.

Demand Response Event	The periods, deadlines, and transitions during which Demand Resources perform. The Program Administrator should specify the duration and applicability of a Demand Response Event. Not all deadlines, periods, and transitions may be applicable to all Demand Response products or services.
Deployment	The time at which a Demand Resource begins reducing Demand on the system in response to an instruction.
Deployment Period	The time in a Demand Response Event beginning with the Deployment and ending with the Release/Recall
Meter Data Recording Interval	The time between electricity meter consumption recordings
Meter Data Reporting Deadline	The maximum allowed time from the end of a Demand Response Event (Normal Operations) to the time when meter data submission is required for performance evaluation and settlement. The Meter Data Reporting Deadline may be either relative (a number of hours/days after Normal Operations) or fixed (a fixed calendar time, such as end-of-month).
Normal Operations	The time following Release/Recall at which a Program Administrator may require a Demand Resource to have returned its Load consumption to normal levels, and to be available again for Deployment
Performance Window	The period in a Demand Response Event analyzed by the Program Administrator to measure and verify the Demand Reduction Value for a Demand Resource.
Ramp Period	The time between Deployment and Reduction Deadline, representing the period of time over which a Demand Resource is expected to achieve its change in Demand
Recovery Period	The time between Release/Recall and Normal Operations, representing the window over which Demand Resources are required to return to their normal Load.
Reduction Deadline	The time at the end of the Ramp Period when a Demand Resource is required to have met its Demand Reduction Value obligation
Release/Recall	The time when a Program Administrator notifies a Demand Resource that the Deployment Period has ended or will end
Sustained Response Period	The time between Reduction Deadline and Release/Recall, representing the window over which a Demand Resource is required to maintain its reduced net consumption of electricity

Telemetry Interval	The time unit between communications between a Demand Resource or Demand Response Provider and a Program Administrator

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August 3, 2010

TO: Smart Grid PAP 10 Distribution List, WEQ Members, REQ Members, and Leadership

FROM: Rae McQuade, NAESB President

RE: Conference Call to Discuss Draft Recommendation for Smart Grid Priority Action Plan 10, "Standardized Energy Usage Information," based on the Tiger Team Report[1] issued on June 22, 2010 by the NIST SGIP PAP10 Committee

Dear All:

As requested by a co-chair of the Smart Grid Standards Subcommittee on PAP 10, a subsequent conference call has been scheduled on Friday August 6, 2010 from 3:30 pm to 4:30 pm Central to continue discussions concerning the applicability of the PAP 10 draft standards to the wholesale electric market, taking into account the requirements of the recent June board resolution.[2] This call should provide you with an opportunity to better understand the recommendation and its language. The outcome of this meeting should be the input of the wholesale electric market to the NAESB wholesale electric quadrant leaders[3] of the Smart Grid PAP 10 subcommittee, so they can best represent your interests.

If you, your company or your colleagues have interest in the NAESB standards to support standardized energy usage and you operate in the wholesale electric market, I urge you to set aside the time to attend this very important call. If you serve on the wholesale electric quadrant Executive Committee or serve as a designated alternate, I strongly urge you to attend this call, as you will be voting on this recommendation when the subcommittee completes its work, and it would benefit you to understand this recommendation and its impacts early on.

The schedule of meetings and deliverables is attached to the agenda for this conference call. As you can see from the schedule, it is extremely aggressive, so if you do have comments, you should get them in early and not wait until the wholesale electric quadrant Executive Committee meeting to submit changes for consideration. As many groups are depending on our work, you would provide a service to the industry by alerting us early in the process of your issues rather than towards the end of the process. By doing so, your issues can be addressed in sufficient time.

The draft recommendation should be complete in mid August after which an informal comment period will start. Try to get your issues addressed now as the recommendation is under development. Please feel free to call the NAESB office should you have any questions or comments.

With Best Regards,

Rae

[1] The Tiger Team report can be accessed from the following links and served as a basis for development: http://www.naesb.org/pdf4/smart_grid_pap10_062210w1.doc and http://www.naesb.org/pdf4/smart_grid_pap10_062210w4.doc

[2] The NAESB Board of Directors, on June 24, 2010, unanimously endorsed a four part resolution that may be accessed from the following link: http://www.naesb.org/pdf4/bd062410a4.doc.

[3] As the work products from this subcommittee are considered seed standards for other groups, NAESB determined that it was important to provide strong coordination with other related development groups and as such offered leadership roles them. The leaders of the NAESB Smart Grid Subcommittee for PAP 10 are: Brent Hodges (OpenADE), Sharon Dinges (ASHRAE), David Kaufman (EIS Alliance), Brad Ramsay (NARUC), Tobin Richardson (ZigBee), Ed Koch (OASIS), Phil Precht (Retail Electric Quadrant of NAESB), and Cathy Wesley/Heather Sanders (Wholesale Electric Quadrant of NAESB).

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NORTH AMERICAN ENERGY STANDARDS BOARD
Smart Grid Standards Subcommittee on Priority Action Plan 10 Conference Call
SPECIAL MEETING FOR WHOLESALE ELECTRIC PARTICIPANTS
August 6, 2010 – 3:30 PM to 4:30 PM C
DRAFT AGENDA

1. Introduction

   a. Antitrust Guidance

   b. Approval of Agenda

2. Continue Review PAP 10 Business Practices and Information Model v04 draft recommendation for applicability to Wholesale Electric Quadrant

   PAP 10 Business Practices and Information Model v04 (revised August 4, 2010):
   http://www.naesb.org/pdf4/smart_grid_pap10_080310a1.doc

3. Discuss necessary modifications to draft recommendation

4. Adjourn

North American Energy Standards Board

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CONFERENCE CALLING AND WEB CONFERENCING DETAILS

FOR THE SMART GRID STANDARDS SUBCOMMITTEE ON PRIORITY ACTION PLAN 10

AUGUST 6, 2010

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

To join the conference call:

- Dial the 11-digit toll free phone number (866-740-1260)
- An automated attendant will ask you to enter a seven-digit access code (7133564)
- The automated attendant will ask you to record your name.
- Please note, if the conference leader has not yet initiated the conference call, you will be placed on hold until the conference leader starts the conference.
- The automated attendant will then ask you for a four-digit security code (1022)

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

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

ReadyTalk recommends that you test your browser and network connections for compatibility prior to participating in a web conference. To do so, go to http://test.callinfo.com. If you have problems joining a conference call or need technical assistance, please contact ReadyTalk Customer Care, 1-800-843-9166.

Please contact the NAESB Office (713-356-0060 or naesb@naesb.org) should you need any additional information or have questions or comments.

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SMART GRID STANDARDS SUBCOMMITTEE ON PRIORITY ACTION PLAN 10 SCHEDULE

Date	Event	Additional Information
June 22, 2010	Kick-off Task Force Meeting	1-4 pm C, see above for how to join the meeting
June 29, 2010	Task Force Meeting	1-4 pm C, see above for how to join the meeting
July 13, 2010	Task Force Meeting	1-4 pm C, see above for how to join the meeting
July 20, 2010	Task Force Meeting	1-4 pm C, see above for how to join the meeting
July 27, 2010	Task Force Meeting	1-4 pm C, see above for how to join the meeting
Aug 3, 2010	Task Force Meeting	1-4 pm C, see above for how to join the meeting
Aug 10, 2010	Task Force Meeting	1-4 pm C, see above for how to join the meeting Straw Vote on draft recommendation to send out for informal comment
Aug 10, 2010	Informal Comment Start	The draft recommendation will be posted and send to a broad distribution list for any interested party to prepare comments
Aug 16, 2010	Informal Comment End	All comments will be posted and publicly available
Aug 20, 2010	Task Force Meeting	1-4 pm C, see above for how to join the meeting Task Force to address informal comments and make changes to the draft recommendation
Aug 24, 2010	Task Force Meeting	1-4 pm C, see above for how to join the meeting Task Force to address informal comments and make changes to the draft recommendation
Aug 31, 2010	Task Force Meeting	1-4 pm C, see above for how to join the meeting Task Force to address informal comments and make changes to the draft recommendation, and task force to vote to send out revised recommendation for industry consideration
Sept 1, 2010	Formal Comment Period Start	The draft recommendation will be posted and send to a broad distribution list for any interested party to prepare comments
Sept 30, 2010	Formal Comment Period End	All comments will be posted and publicly available
Oct 4, 2010	Task Force Meeting	1-4 pm C, see above for how to join the meeting Task Force to address formal comments and prepare late comments as suggested changes to the recommendation
Oct 5, 2010	Task Force Meeting	1-4 pm C, see above for how to join the meeting Task Force to address formal comments and prepare late comments as suggested changes to the recommendation
Oct 8, 2010	Task Force Late Comments Issued	The task force will issue late comments in the form of a revised recommendation and will provide the matrix of comments received and actions taken as part of the late comments.

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SMART GRID STANDARDS SUBCOMMITTEE ON PRIORITY ACTION PLAN 10 SCHEDULE

Date	Event	Additional Information
Oct 15, 2010	Joint EC Single Topic Review Session	1-4 pm C, see above for how to join the meeting Drafters of the recommendation will discuss the recommendation and the late comments and answer EC member questions
Oct 22, 2010	Joint EC Meeting	1-4 pm C, see above for how to join the meeting WEQ and REQ EC members will vote on the recommendation
Oct 29, 2010	Ratification Period Begins	WEQ and REQ members will be issued a ratification ballot.
Nov 29, 2010	Ratification Period Ends	Ballot to be returned to NAESB no later than 11-29-10.
Dec 1, 2010	Standards Ratified	

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE

For Quadrant:	**Retail Electric and Wholesale Electric Quadrants**
Requesters:	**Smart Grid PAP 10 Subcommittee**
Request No.:	**WEQ AP Item 6(d), REQ AP Item 9(d)**
Request Title:	**Business Practices and Information Models to Support Priority Action Plan 10 – Standardized Energy Usage Information**

1. RECOMMENDED ACTION:

X	Accept as requested
	Accept as modified below
	Decline

EFFECT OF EC VOTE TO ACCEPT RECOMMENDED ACTION:

X	Change to Existing Practice
	Status Quo

2. TYPE OF DEVELOPMENT/MAINTENANCE

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

3. RECOMMENDATION

SUMMARY:

The Joint Retail Electric (REQ) and Wholesale Electric (WEQ) Quadrants' PAP 10 Smart Grid Subcommittee submit this Recommendation for 2010 Retail Annual Plan Item No. 9d and WEQ Annual Plan Item No. 6d – Business Practices and Information Models to support Priority Action Plan 10, "Standardized Energy Usage Information," based on the Tiger Team Report issued on June 22, 2010 by the NIST SGIP PAP10 Committee.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE

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Request Title:	**Business Practices and Information Models to Support Priority Action Plan 10 – Standardized Energy Usage Information**

In initiating this standards development, NAESB agreed to by year-end 2010 develop an energy use information model standard defining information to be communicated between utilities, third parties and energy use customers, via customer devices and/or 3rd Party energy services providers. The basic energy usage information model standard will let energy services providers exchange detailed energy use and cost information in a consistent format on behalf of customers. Doing so will let Customers track their power use and help them manage energy consumption and cost. Without a standardized format for representing energy use data, a variety of approaches could emerge, leading to incompatibilities among energy management products and services. It is planned that the American Society of Heating, Refrigerating and AC Engineers (ASHRAE) will extend the NAESB standard to create a facilities data model providing additional energy use data elements for facility energy management including buildings.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE

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Request Title:	**Business Practices and Information Models to Support Priority Action Plan 10 – Standardized Energy Usage Information**

RECOMMENDED STANDARDS:

WEQ-019 CUSTOMER ENERGY USAGE INFORMATION COMMUNICATION

EXECUTIVE SUMMARY

This section presents a summary of the Model Business Practices for Retail Customer Energy Usage Information communication. Specifically, these Model Business Practices establish a model for Energy Usage Information to be communicated in a consistent format among a variety of Entities, potentially including Distribution Companies, Energy Service Providers, meter-reading entities, and Retail Customers, via devices owned by Retail Customers and/or Energy Services Providers. Establishment of this model will let Retail Customers track their energy use and help them manage energy consumption and costs.

This document contains Model Business Practices establishing a model for communication of Retail Customer Energy Usage Information. The Model Business Practices do not require that wholesale electricity markets administered by System to adopt this model since System Operators generally are not the system of record for individual Retail Customer Energy Usage Information and load data or individual Retail Customer forecasted usage and load data. These Model Business Practices are not intended to replace applicable Governing Documents, and in the event of a conflict, the latter documents shall have precedence over these standards. . Without limiting the foregoing, these Model Business Practices are only applicable to the extent the information covered by this model is collected, managed or communicated pursuant to the applicable Governing Documents.

Retail Customer Energy Usage Information communication encompasses a variety of interactions between Distribution Companies, Retail Customers and Energy Services Providers. In a business environment where best practices are voluntary, Model Business Practices such as those in this document may be applied within the context of regulatory or other market requirements and agreements.

INTRODUCTION

The North American Energy Standards Board (NAESB) is a voluntary, non-profit organization comprised of members from all aspects of the natural gas and electric industries. Within NAESB, the Retail Electric Quadrant (REQ) and the Retail Gas Quadrant (RGQ) focus on issues impacting the retail sale of energy to end-use Retail Customers. REQ / RGQ Model Business Practices are intended to provide guidance to Distribution Companies, Suppliers, and other Market Participants involved in providing competitive energy service to end-use Retail Customers. The focus of these Model Business Practices is the representation of Retail Customer Energy Usage Information. System Operators do not generally communicate with Retail Customers and are not the system of record for individual Retail Customer Energy Usage Information or individual Retail Customer load forecast.

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE

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

BUSINESS PROCESSES AND PRACTICES

Overview

The business processes and practices described below are not presently applicable to Wholesale Markets because Wholesale Markets do not generally communicate directly with Retail Customers and are not the system of record for individual Retail Customer Energy Usage Information or individual Retail Customer load forecast. The model and these business processes and practices are not required of System Operators. As the model and these business processes and practices evolve, System Operators may determine that use of the model or these business processes can be applied to other information. However, such use is not intended to replace or supplant applicable Governing Documents. Without limiting the foregoing, these Model Business Practices are only applicable to the extent the information covered by this model is collected, managed or communicated pursuant to the applicable tariff, market rules, operating procedures, protocols or manuals.

WEQ-019.1 Principles

WEQ-019.1.1 Overall Principles

WEQ-019-1.1.1 These Model Business Practices provide a Retail Customer Energy Usage Information model, defining a collection of structured Energy Usage Information elements needed by Retail Customers, to allow management of their energy efficiency and costs, including environmental impacts.

WEQ-019-1.1.2 The Energy Usage Information model is specified in UML, which is syntax neutral, so that it may be used within exchange protocols using a variety of specific representation syntax and exchange mechanisms, specified separately.

WEQ-019-1.1.3 The recommended use of the Energy Usage Information model is in implementation specifications exposing Retail Customer Energy Usage Information. Specifications that conform to the model shall contain semantically equivalent representations of all required and included model elements, resulting in straightforward, lossless transformations between conformant specifications.

WEQ-019.1.2 General Principles

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE

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This section describes the requirements for the Energy Usage Information model defined in these Model Business Practices. It is specifically not intended to represent requirements for use of the Model Business Practices. Rather, it describes the potential overlapping needs of a robust model that can satisfy the many current and anticipated future needs for exchange of Energy Usage Information.

The following list of objectives represents a series of intended outcomes from the implementation of Model Business Practices defining Energy Usage Information. The goals and objectives herein do not require the regulated wholesale or retail Entity, in control of such information, to provide in the defined format or release such information, except where required under their Governing Documents and only to the Parties that are identified in the Governing Documents to receive such information. The Wholesale Market does not communicate with the individual Retail Customer, nor does the Wholesale Market forecast energy consumption for individual Retail Customers. The Wholesale Market does not use individual Retail Customer Energy Usage Information in their settlement unless specified in or supported by their Governing Documents. Statements idealizing intended outcomes do not hold the regulated Entity responsible for any actions taken or results of the actions of the receiving party.

For each requirement stated, there is an explanatory verification paragraph describing how the model in Appendix A satisfies the requirement.

WEQ-019.1.2.1 General

WEQ-019.1.2.1.1 Facilities shall include residences, buildings, and industrial installations

WEQ-019.1.2.1.2 Usage and load information shall be readily available

WEQ-019.1.2.1.3 PAP 10 is an information model concept which is transport agnostic.

WEQ-019.1.2.2 Timeliness of Delivery

WEQ-019.1.2.2.1 Customers shall be able to use the information defined in these standards for real-time feedback on present and projected performance

WEQ-019.1.2.2.2 Premises based systems (e.g. EMS/ESI) shall be able to use the information defined in these standards for real-time feedback on present and projected performance

WEQ-019.1.2.2.3 Information exchanged shall be delivered in sufficient time to affect usage ["and this is the definition of real-time and near real-time "]

WEQ-019.1.2.2.4 Operations, Distribution, and Service Providers shall be able to use the information defined in these standards with the facility in near-real-time

WEQ-019.1.2.2.5 Customers and premises-based systems shall be able to use the information defined in these standards to provide real-time feedback on present and projected performance

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129	**WEQ-019.1.2.3**	**Benefits to Facilities**
130	*WEQ-019.1.2.3.1*	*Standard load and usage information shall enable improved energy efficiency by defining a consistent way to communicate usage information.*
132	*WEQ-019.1.2.3.2*	*Standard load and usage information shall enable helping [all] Customers and operations manage their energy usage [and load]*
134	*WEQ-019.1.2.3.3*	*Standard load and usage information shall enable improved [facility] energy usage by availability of fine grained and timely information*
136	*WEQ-019.1.2.3.4*	*Availability of fine grained and timely information will enable better decisions about energy usage and conservation*
138	*WEQ-019.1.2.3.5*	*Facilities will benefit from consistent usage information exchange inside the facility, including meeting the energy efficiency goals of EISA 2007 and DOE initiatives*
140	*WEQ-019.1.2.3.6*	*Standard model shall support aggregated projections that can be passed on to operations make forecasting and management better and increase the value of a facility to the Smart Grid*
143	*WEQ-019.1.2.3.7*	*Sharing usage and load information inside a facility makes that facility more valuable to the Smart Grid*
145	*WEQ-019.1.2.3.8*	*The information exchanged shall allow integration of usage information throughout facility decision processes*
147	**WEQ-019.1.2.4**	**Benefits to Grid and Service Provider Operations**
148	*WEQ-019.1.2.4.1*	*Standard load and usage information will improve forecasting and grid management by delivering aggregated projections to operations.*
150	*WEQ-019.1.2.4.2*	*Standard load and usage information will improve forecasting and grid management by delivering aggregated projections to service providers.*
152	*WEQ-019.1.2.4.3*	*Standard load and usage information will enable more responsive facilities.*
153	*WEQ-019.1.2.4.4*	*Standard load and usage information will enable early deployment of devices that deliver and understand usage information.*
155	**WEQ-019.1.2.5**	**Internet-Like Future**
156	*WEQ-019.1.2.5.1*	*Standard usage and load information enables innovation in novel ways to help customers manage energy usage.*
158	*WEQ-019.1.2.5.2*	*Standard usage and load information enables innovation by third party service and software providers.*
160	**WEQ-019.1.2.6**	**Improved Collaboration**
161	*WEQ-019.1.2.6.1*	*The Information model shall not restrict two way flows of information.*

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162	*WEQ-019.1.2.6.2*	*By standardizing usage and load information exchange, devices that deliver and understand usage and load can be deployed more quickly, contributing to achieving the energy efficiency goals of EISA 2007 and DOE.*
165	**WEQ-019.1.2.7**	**Information Sources and Accessibility**
166	*WEQ-019.1.2.7.1*	*Usage and load information shall be provided by utilities and aggregating service providers and may be provided by others.*
168	*WEQ-019.1.2.7.2*	*Usage and load information shall be provided by devices and EMS/ESI implementations.*
169	*WEQ-019.1.2.7.3*	*Usage and load information can be accessed from the meter.*
170	*WEQ-019.1.2.7.4*	*Usage and load information can be accessed from the Smart Grid.*
171	**WEQ-019.1.2.8**	**Interactions and Information Exchanges Supported**
172	*WEQ-019.1.2.8.1*	*Interactions supported shall include those between Distribution [and Operations] and the industrial, commercial, and residential premises.*
174	*WEQ-019.1.2.8.2*	*Standard information models and understanding of usage and load are essential to cross domain interactions between Distribution [and Operations]: and Industrial, Commercial, Residential, and PEVs.*
177	*WEQ-019.1.2.8.3*	*Interactions supported shall include those between Distribution [and Operations] and the industrial, commercial, residential premises, and plug-in electric vehicles.*
179	*WEQ-019.1.2.8.4*	*Standard information models and understanding of usage and load are essential to cross domain interactions between Service Providers: and Industrial, Commercial, Residential, and PEVs.*
182	*WEQ-019.1.2.8.5*	*Interactions supported shall include those between Service Providers and the industrial, commercial, residential premises, and plug-in electric vehicles.*
184	*WEQ-019.1.2.8.6*	*This effort shall support information standards for load curtailment, load shaping, and energy market operations, hence load and usage must be supported (see PAP09, PAP03, and PAP04).*
187	*WEQ-019.1.2.8.7*	*Information exchanges shall include to, from, and within facilities.*
188	**WEQ-019.1.2.9**	**Information Characteristics**
189	*WEQ-019.1.2.9.1*	*Information model shall support exchange of both Fine Grained and summary information.*
191	*WEQ-019.1.2.9.2*	*Fine grained means that there is disaggregated information. Disaggregated information can include for example load, subsystem, premise, and variable time interval.*
193	*WEQ-019.1.2.9.3*	*Support for exchanging standard historical, present, and projected load information is required.*
195	*WEQ-019.1.2.9.4*	*Energy Usage Information shall include usage, usage profile, and some component of cost (consistent with PAP03, PAP04).*

RECOMMENDATION TO NAESB EXECUTIVE COMMITTEE

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197 198	*WEQ-019.1.2.9.5*	*The PAP 10 Energy Usage Information model shall allow for exchange of greater or lesser detail.*
199	**WEQ-019.1.2.10**	**Timing and Goals**
200 201	*WEQ-019.1.2.10.1*	*Initial steps include making usage information more readily available by defining and standardizing usage information [delivered] through existing SG infrastructure.*
202	*WEQ-019.1.2.10.2*	*Information on device and facility usage is a primary goal in the initial focus.*
203 204	*WEQ-019.1.2.10.3*	*Standard load and usage information will enable early deployment of devices that deliver and understand usage information.*
205	**WEQ-019.1.2.11**	**Requirements on Quality of Consensus Standard**
206		*The information model shall support:*
207	*WEQ-019.1.2.11.1*	*Consistent data representation for REST & Web Services*
208 209	*WEQ-019.1.2.11.2*	*Specification of transactional exchange, syntax, and required population of the information model are beyond the scope of these requirements*
210	*WEQ-019.1.2.11.3*	*an extensible information model – e.g. ability to add custom extensions as needed*
211 212	*WEQ-019.1.2.11.4*	*have an evolvable information model – e.g. the standards process supports future revisions*
213	*WEQ-019.1.2.11.5*	*Forward compatible as we evolve*
214	*WEQ-019.1.2.11.6*	*Supportive of versioning*
215	*WEQ-019.1.2.11.7*	*Usable without "knowing all the details"*
216		*More flexibility for independent innovation shall be achieved through:*
217	*WEQ-019.1.2.11.8*	*Focus on information exchanged*
218	*WEQ-019.1.2.11.9*	*Agreed upon interfaces are maintained over time*
219	*WEQ-019.1.2.11.10*	*Minimal details = maximum interoperation*
220	*WEQ-019.1.2.11.11*	*Intellectual Property Rights shall be clear & clean*
221		*Results of PAP 10 shall produce:*
222	*WEQ-019.1.2.11.12*	*Information model and XML schema*
223	*WEQ-019.1.2.11.13*	*At information exchange level*
224		*The information model shall be:*
225	*WEQ-019.1.2.11.14*	*Readable without charge*
226	*WEQ-019.1.2.11.15*	*Reusable without restriction or charge*

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227	*WEQ-019.1.2.11.16*	*Adaptable without restriction or charge*
228	*WEQ-019.1.2.11.17*	*Usable for open source*
229	**WEQ-019.1.2.12**	**Additional Considerations**
230	*WEQ-019.1.2.12.1*	*In communicating energy usage information, the Energy Usage Information Model should be used and the information outlined within the model should be available.*
232	*WEQ-019.1.2.12.2*	*The Energy Usage Information Model data set has three unique identifiers, which serve the purpose of allowing various aggregations of data sets.*
234	*WEQ-019.1.2.12.3*	*The Tariff Profile component should be included in the Energy Information Usage Model.*
236	*WEQ-019.1.2.12.4*	*UsageSummary should include an optional cost attribute to interval and reading class.*
237	*WEQ-019.1.2.12.5*	*A known base currency should be included in the top level class associated with the MeterAsset for the Energy Usage Information Model, which would be applicable to all instances.*
240	*WEQ-019.1.2.12.6*	*The Energy Usage Information Model should be compliant with ISO8601.*
241	*WEQ-019.1.2.12.7*	*Optionally, both start and end of interval can be defined in order to support non-uniform interval information, which is accomplished in the Energy Information Usage Model through endTimestamp to IntervalReading.*
244	*WEQ-019.1.2.12.8*	*Demand based elements are maintained in the TariffProfile including common demand and demand ratchets.*
246	*WEQ-019.1.2.12.9*	*The Energy Information Usage Model status structure includes a named pair of QualityOfReading and values of raw, forecast, validated, estimated, mixed, and other for qualifying the associated data set, as an explicit representation of these name value pairs can be processed in implementations by sending and receiving actors. The UsageSummary class also includes such summary information.*
251	*WEQ-019.1.2.12.10*	*MeterEvent should be associated with meterAsset, not MeterReading.*
252	*WEQ-019.1.2.12.11*	*PQSummary as events of enumerated type are provided in the Energy Information Usage Model to represent a simple exposure of summary information.*
254	*WEQ-019.1.2.12.12*	*The Energy Usage Information Model should represent and take into account pollutant energy emissions such as O2, SO2, and NOX.*
256	*WEQ-019.1.2.12.13*	*Energy Usage Information Model should include a top level cost summary – billStart, billEnd, billToDate, lastPeriod, and costAdditional, so that the bill to date and bill as of the last billing period could be conveyed through a formula:*
259	*WEQ-019.1.2.12.14*	*The model shall use the work being produced by OASIS on common schedule information pursuant to the SGIP PAP04 Requirements. As this work is not complete as of this draft, the abstract definition of time intervals is the most appropriate way to ensure consistency.*

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WEQ-019.1.2.12.15 *The model shall use the work being produced by OASIS on common price and product definition information pursuant to the SGIP PAP03 Requirements. As this work is not complete as of this draft, should information related to price be included in the Seed Specification it must be at an appropriate level of abstraction.*

WEQ-019.2 Energy Usage Abbreviations, Acronyms and Definition of Terms

WEQ-019.2.1 Business Definitions

WEQ-019.2.1.1 Applicable Regulatory Authority

The state regulatory agency or other governing body that provides oversight, policy guidance, and direction to any parties involved in the process of providing energy to Retail Customers through regulations and orders.

WEQ-019.2.1.2 (Retail) Customer

Any Entity that takes gas and/or electric service for its own consumption.

WEQ-019.2.1.3 Distribution Company

A regulated Entity which provides distribution services and may provide energy and/or transmission/transportation services in a given area.

WEQ-019.2.1.4 Entity

A person or organization with sufficient legal standing to enter into a contract or arrangement with another such person or organization (as such legal standing may be determined by those parties) for the purpose of conducting and/or coordinating energy transactions.

WEQ-019.2.1.5 Governing Documents

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

WEQ-019.2.1.6 Market Participant

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

WEQ-019.2.1.7 Model Business Practices

TBD

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WEQ-019.2.1.8 Supplier

Persons engaged in the competitive sale of energy to end-users.

WEQ-019.2.2 Technical Definitions

This section contains technical terms and abbreviations used in this recommendation.

WEQ-019.2.2.1 Energy Management System (EMS)

An application used for controlling multiple energy-controllable devices (e.g., pool pump, Programmable Communicating Thermostat, light switches, PEV charging, etc.). This application may reside within a HAN Device (e.g. Programmable Communicating Thermostat, In-Home Display, computer, cable set-top box, other computing device, etc.). This application may also control other devices or systems in the home providing integrated automated services for the Consumer.

WEQ-019.2.2.2 Energy Services Interface (ESI)

A secure interface to a premises communications network (i.e. HAN) which facilitates relevant energy applications (e.g. remote load control, demand response, monitoring and control of DER, in-premises display of energy usage, reading of energy and non-energy meters, PEV charging and roaming coordination, and integration with energy management systems, etc.), provides auditing / logging functions that record transactions to and from HAN Devices, and, often, coordination functions that enable secure transactions between the HAN Devices Commissioned and Registered on its network and Enrolled in a Service Provider program.

WEQ-019.2.2.3 Energy Services Provider

An entity (e.g. Utility, retail electric provider, demand response aggregator, etc.) which provides energy services to Customers.

WEQ-019.2.2.4 Energy Usage Information

TBD

WEQ-019.2.2.5 Facility

TBD

WEQ-019.2.2.6 Fine Grained

Characterized by abundant use of detail or thoroughness of treatment.

WEQ-019.2.2.1 Operations

One of the seven domains identified in the NIST Framework and Roadmap, defined there as "The managers of the movement of electricity". This could apply to operators of equipment within any of the other domains.

WEQ-019.2.2.2 Real-time

Refers to the ability of a component to process input at the rate it is received.

WEQ-019.2.2.3 Regional Transmission Organization

TBD

WEQ-019.2.2.4 Seed Specification

TBD

WEQ-019.2.2.5 Smart Grid

TBD

WEQ-019.2.2.6 System Operator

TBD

WEQ-019.2.2.7 Wholesale Market

TBD

WEQ-019.3 Energy Usage Information Model Business Practices

WEQ-019.3.1 Introduction

The focus of these Model Business Practices is the representation of Energy Usage Information. As defined in [PAP10 Requirements] the Energy Usage Information includes historic, present, and future projected usage and load together with the time period(s) for that information.

These Model Business Practices draw on actors and use cases defined by the following groups:

- Energy Information Standards Alliance (the EIS Alliance) [EIS]
- NAESB Survey and Consolidation of PAP10 Use Cases [NAESB PAP10]
- UCAIug OpenADE [ADE]
- ZigBee/Home Plug Smart Energy Profile 2.0 Market Requirements [SEP MRD]

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The relevant use cases are summarized as follows:

WEQ-019.4.1 The ESP and/or Distribution Company communicates historic and present Energy Usage Information and load information to the Retail Customer or Facility.[1]

WEQ-019.4.2 The Retail Customer or Facility communicates future projected usage and load information to the ESP, Distribution Company, or Grid Operations.[2]

WEQ-019.4.3 The ESP and/or Utility communicates their projection of usage and load to the Retail Customer or Facility.[3]

WEQ-019.4.4 Devices within a Facility communicate their present and future projected usage and load to Controllers or Facility EMS for aggregation and to be a component of Facility aggregated future projected usage and load.[4]

WEQ-019.4.5 Devices, business processes, EMS, ESI, and other functional units within the Facility communicate usage and load information among themselves.[5]

WEQ-019.4.6 These Model Business Practices are limited to the Seed Specification which shall be usable by others to build standards and/or specification for exchange of Energy Usage Information and load information appropriate to their needs without overly constraining those uses or including information that is not required in all implementations of specifications for exchanging load and usage.

WEQ-019.4 Energy Usage Information Model

The model proposed is based on the IEC TC57 Common Information Model, WG13 and WG14. New elements identified in this recommendation will be proposed to these working groups, after ratification within NAESB, as extensions to be considered for inclusion in a future release of the CIM.

[1] See e.g. EIS Alliance Use Cases v2 including UC-9, UC-11, UC-12, UC-14, UC-15, and OpenADE use case "Publication".
[2] See e.g. EIS Alliance Use Cases v2 including UC-3, UC-11, UC-14, UC-15
[3] Needs refs. This is an addition to EIS and OpenADE.
[4] See e.g. EIS Alliance Use Cases v2 including UC-1, UC-2, UC-3, UC-8, UC-9.
[5] See e.g. EIS Alliance Use Cases v2 including UC-1, UC-2, UC-3

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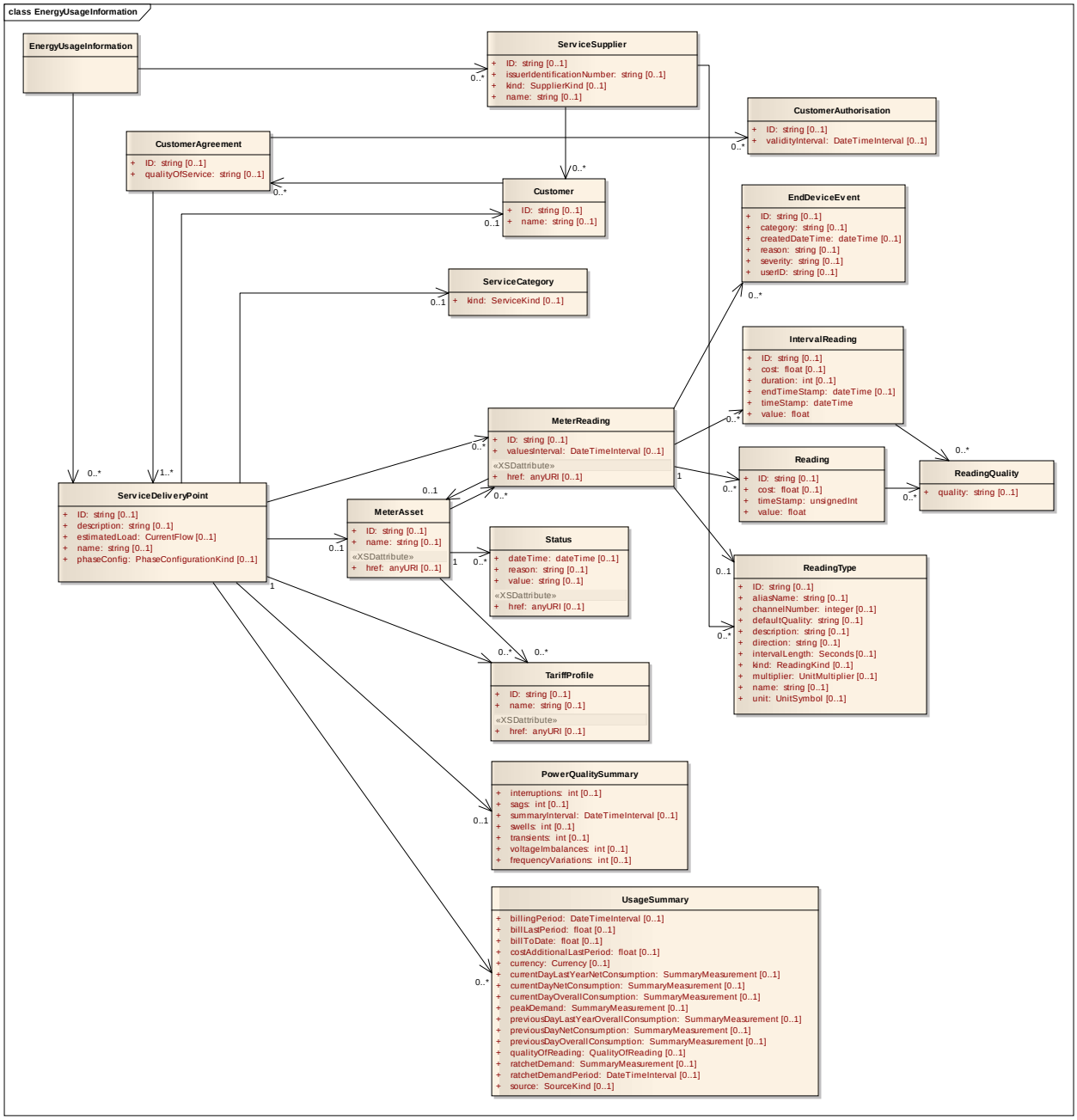

373

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374 **WEQ-019.4.1 Energy Usage Information Model Details**

375 The following sections contain the classes and attributes defined in the model, along with
376 their descriptions. Elements tagged with <<enumeration>> define the valid values for an
377 enumerated data type.

378 **WEQ-019.4.7.1.1 Currency** *«enumeration»*

379 Monetary currencies. Apologies for this list not being exhaustive.

Name	Type	Description
AUD		Australian dollar
CAD		Canadian dollar
CHF		Swiss francs
CNY		Chinese yuan renminbi
DKK		Danish crown
EUR		European euro
GBP		British pound
INR		India rupees
JPY		Japanese yen
NOK		Norwegian crown
other		Another type of currency.
RUR		Russian ruble
SEK		Swedish crown
USD		US dollar

380 **WEQ-019.4.7.1.2 CurrentFlow**

381 Electrical current (positive flow is out of the ConductingEquipment into the
382 ConnectivityNode)

Name	Type	Description
multiplier	*UnitMultiplier*	Multiplier for 'unit'.
unit	*UnitSymbol*	Unit in symbol
value	*float*	Value in type of float

383 **WEQ-019.4.7.1.3 Customer**

384 Organisation receiving services from ServiceSupplier.

Name	Type	Description

ID	*string*	Object identifier
name	*string*	Name of an attribute.

385 **WEQ-019.4.7.1.4 CustomerAgreement**

386 Agreement between the Customer and the ServiceSupplier to pay for service at a specific
387 ServiceLocation. It records certain billing information about the type of service provided
388 at the ServiceLocation and is used during charge creation to determine the type of
389 service.

Name	Type	Description
ID	*string*	A Model Authority issues mRIDs. Given that each Model Authority has a unique id and this id is part of the mRID, then the mRID is globally unique.
qualityOfService	*string*	Quality of service provided to customer related to contracted level of power quality events

390 **WEQ-019.4.7.1.5 DateTimeInterval**

391 Interval of date and time.

Name	Type	Description
end	*unsignedInt*	Date and time that this interval ended.
start	*unsignedInt*	Date and time that this interval started.

392 **WEQ-019.4.7.1.6 EndDeviceEvent**

393 Event detected by a DeviceFunction associated with EndDeviceAsset.

Name	Type	Description
ID	*string*	A Model Authority issues mRIDs. Given that each Model Authority has a unique id and this id is part of the mRID, then the mRID is globally unique.
category	*string*	Category of event resulting in this activity record.
createdDateTime	*dateTime*	Date and time this activity record has been created (different from the 'status.dateTime', which is the time of a status change of the associated object, if applicable).
reason	*string*	Reason for event resulting in this activity record, typically supplied when user initiated.
severity	*string*	Severity level of event resulting in this

		activity record.
userID	*string*	(if user initiated) ID of user who initiated this end device event.

394 **WEQ-019.4.7.1.7 EnergyUsageInformation**

395

396 **WEQ-019.4.7.1.8 IntervalReading**

397 Data captured at regular intervals of time. Interval data could be captured as incremental
398 data, absolute data, or relative data. The source for the data is usually a tariff quantity or
399 an engineering quantity. Data is typically captured in time-tagged, uniform, fixed-length
400 intervals of 5, 10, 15, 30, or 60 minutes.
401 Note: Interval Data is sometimes also called "Interval Data Readings" (IDR).

Name	Type	Description
ID	*string*	Object identifier
cost	*float*	
duration	*int*	The duration of the interval, in seconds.
endTimeStamp	*dateTime*	End interval timestamp
timeStamp	*dateTime*	The start date and time of an interval reading
value	*float*	Value in type of float

402 **WEQ-019.4.7.1.9 MeterAsset**

403 Physical asset that performs the metering role of the ServiceDeliveryPoint. Used for
404 measuring consumption and detection of events.

Name	Type	Description
ID	*string*	Object identifier
name	*string*	Meter name
href	*anyURI*	Hypertext reference pointing to a URI

405 **WEQ-019.4.7.1.10 MeterReading**

406 Set of values obtained from the meter.

Name	Type	Description
href	*anyURI*	Hypertext reference pointing to a URI
ID	*string*	Object identifier
valuesInterval	*DateTimeInterval*	Interval in date time (start & end)

407 **WEQ-019.4.7.1.11 PhaseConfigurationKind** *«enumeration»*

Kind of phase configuration.
Note that there is an enum Wires::WindingConnection with values {D, Y, Z, Yn, Zn}. However, there are many more phase configurations than delta (threePhaseThreeWire) and wye (threePhaseFourWire), which are defined here.

Name	Type	Description
onePhaseThreeWire		
onePhaseTwoWire		
other		
threePhaseFourWire		
threePhaseThreeWire		
threePhaseTwoWire		
twoPhaseThreeWire		
twoPhaseTwoWire		

WEQ-019.4.7.1.12 **PowerQualitySummary**

Name	Type	Description
interruptions	*int*	Number of interruptions
sags	*int*	Number of sags
summaryInterval	*DateTimeInterval*	Interval of summary period
swells	*int*	Number of swells
transients	*int*	Number of transients
voltageImbalances	*int*	Number of voltage imbalances
frequencyVariations	*int*	Number of frequency variations

WEQ-019.4.7.1.13 **QualityOfReading** *«enumeration»*

Name	Type	Description
estimated		

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forecast		
mixed		
raw		
validated		
normalizedForWeather		
other		

WEQ-019.4.7.1.14 Reading

Specific value measured by a meter or other asset. Each Reading is associated with a specific ReadingType.

Name	Type	Description
ID	*string*	Object identifier
cost	*float*	Cost in a currency
timeStamp	*unsignedInt*	The date and time of a reading
value	*float*	Value in type of float

WEQ-019.4.7.1.15 ReadingKind *«enumeration»*

Kind of reading.

Name	Type	Description
current		
currentAngle		
date		
demand		
energy		
other		
phaseAngle		
power		
powerFactor		
pressure		
time		
voltage		
voltageAngle		
volume		
carbonDioxide		

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NOx		
carbon		
SOx		
methane		
HCH		
perfluorocarbons		
sulfurHexafluoride		

WEQ-019.4.7.1.16 ReadingQuality

Quality of a specific reading value or interval reading value. Note that more than one Quality may be applicable to a given Reading. Typically not unsed unless problems or unusual conditions occur (i.e., quality for each Reading is assumed to be 'Good' unless stated otherwise in associated ReadingQuality).

Name	Type	Description
quality	*string*	Quality, to be specified if different than 'Good'.

WEQ-019.4.7.1.17 ReadingType

Type of data conveyed by a specific Reading.

Name	Type	Description
ID	*string*	A Model Authority issues mRIDs. Given that each Model Authority has a unique id and this id is part of the mRID, then the mRID is globally unique.
aliasName	*string*	The aliasName is free text human readable name of the object alternative to IdentifiedObject.name. It may be non unique and may not correlate to a naming hierarchy.
channelNumber	*integer*	Logical positioning of this measurement data.
defaultQuality	*string*	Characteristics of a data value conveyed by a specific Reading, which allow an application to understand how a specific Reading is to be interpreted.
description	*string*	The description is a free human readable text describing or naming the object. It may be non unique and may not correlate to a naming hierarchy.

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direction	*string*	Specifies the direction of flow of the measurement.
intervalLength	*Seconds*	(if incremental reading value) Length of increment interval. Interval duration specified at the IntervalReading overrides this default.
kind	*ReadingKind*	Kind of reading.
multiplier	*UnitMultiplier*	Multiplier for 'unit'.
name	*string*	Name of an attribute.
unit	*UnitSymbol*	Unit in symbol

428 **WEQ-019.4.7.1.18 Seconds**

429 Time, in seconds

Name	Type	Description
multiplier	*UnitMultiplier*	Multiplier for 'unit'.
unit	*UnitSymbol*	Unit in symbol
value	*float*	Value in type of float

430 **WEQ-019.4.7.1.19 ServiceDeliveryPoint**

431 Logical point on the network where the ownership of the service changes hands. It is one
432 of potentially many service points within a ServiceLocation, delivering service in
433 accordance with a CustomerAgreement. Used at the place where a meter may be
434 installed.

Name	Type	Description
ID	*string*	A Model Authority issues mRIDs. Given that each Model Authority has a unique id and this id is part of the mRID, then the mRID is globally unique.
description	*string*	The description is a free human readable text describing or naming the object. It may be non unique and may not correlate to a naming hierarchy.
estimatedLoad	*CurrentFlow*	Estimated load.
name	*string*	Name of an attribute.
phaseConfig	*PhaseConfiguratio nKind*	Phase configuration kind.

435 **WEQ-019.4.7.1.20 SourceKind** *«enumeration»*

436

Name	Type	Description

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consumer		
provider		
other		

437 **WEQ-019.4.7.1.21 Status**

438 Current status information relevant to an entity.

Name	Type	Description
dateTime	*dateTime*	Date and time for which status 'value' applies.
href	*anyURI*	Hypertext reference pointing to a URI
reason	*string*	Reason code or explanation for why an object went to the current status 'value'.
value	*string*	Value in string

439 **WEQ-019.4.7.1.22 SummaryMeasurement**

440

Name	Type	Description
multiplier	*UnitMultiplier*	
timeStamp	*dateTime*	
unit	*UnitSymbol*	
value	*float*	

441 **WEQ-019.4.7.1.23 TariffProfile**

442 A schedule of charges; structure associated with Tariff that allows the definition of
443 complex tarif structures such as step and time of use when used in conjunction with
444 TimeTariffInterval and Charge. Inherited 'status.value' is defined in the context of the
445 utility's business rules, for example: active, inactive, etc.

Name	Type	Description
ID	*string*	Object identifier
name	*string*	Name of an attribute.
href	*anyURI*	Hypertext reference pointing to a URI

446 **WEQ-019.4.7.1.24 UnitMultiplier** *«enumeration»*

447 The unit multipliers defined for the CIM

Name	Type	Description
c		Centi 10**-2

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d		Deci 10**-1
G		Giga 10**9
k		Kilo 10**3
m		Milli 10**-3
M		Mega 10**6
micro		Micro 10**-6
n		Nano 10**-9
none		
p		Pico 10**-12
T		Tera 10**12

448 **WEQ-019.4.7.1.25** **UnitSymbol** *«enumeration»*

449 The units defiend for usage in the CIM

Name	Type	Description
A		Current in ampere
deg		Plane angle in degrees
F		Capacitance in farad
g		Mass in gram
h		Time in hours
H		Inductance in henry
Hz		Frequency in hertz
Hz-1		per Hertz
J		Energy in joule
J/s		Joule per second
kg/J		Mass per energy
m		Length in meter
m2		Area in square meters
m3		Volume in cubic meters
min		Time in minutes
N		Force in newton
none		Dimension less quantity, e.g. count, per unit, etc.
C		Relative temperature in degrees Celsius
ohm		Resistance in ohm

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Pa		Pressure in pascal (n/m2)
rad		Plane angle in radians
S		Conductance in siemens
s		Time in seconds
s-1		per second
V		Voltage in volt
V/VAr		Volt per volt ampere reactive
VA		Apparent power in volt ampere
VAh		Apparent energy in volt ampere hours
VAr		Reactive power in volt ampere reactive
VArh		Reactive energy in volt ampere reactive hours
W		Active power in watt
W/Hz		Watt per hertz
W/s		Watt per second
Wh		Real energy in what hours

450 **WEQ-019.4.7.1.26 UsageSummary**

451

Name	Type	Description
billingPeriod	*DateTimeInterval*	
billLastPeriod	*float*	
billToDate	*float*	
costAdditionalLastPeriod	*float*	
currency	*Currency*	
currentDayLastYearNetConsumption	*SummaryMeasurement*	
currentDayNetConsumption	*SummaryMeasurement*	
currentDayOverallConsumption	*SummaryMeasurement*	
peakDemand	*SummaryMeasurement*	
previousDayLastYearOverallCon	*SummaryMeasurement*	

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sumption		
previousDayNetConsumption	*SummaryMeasurement*	
previousDayOverallConsumption	*SummaryMeasurement*	
qualityOfReading	*QualityOfReading*	
ratchetDemand	*SummaryMeasurement*	
ratchetDemandPeriod	*DateTimeInterval*	
source	*SourceKind*	

452 **WEQ-019.4.7.1.27** **ServiceKind** *«enumeration»*

453 Kind of service.

Name	Type	Description
electricity		
gas		
water		
time		
heat		
refuse		
sewerage		
rates		
tvLicence		
internet		
other		

454 **WEQ-019.4.7.1.28** **CustomerAuthorisation**

455 Holds an authorisation for access to specific user-private data granted to a 3rd Party
456 service provider. [OpenADE Extension - Specialization of "Agreement"]

Name	Type	Description
ID	*string*	Unique identifier for this authorisation
validityInterval	*DateTimeInterval*	Date and time interval this agreement is valid (from going into effect to termination).

457 **WEQ-019.4.7.1.29** **ServiceCategory**

458 Category of service provided to the customer.

Name	Type	Description
kind	*ServiceKind*	Kind of service.

459 **WEQ-019.4.7.1.30** **SupplierKind** *«enumeration»*

460 Kind of supplier.

Name	Type	Description
utility		
retailer		
other		

461 **WEQ-019.4.7.1.31** **ServiceSupplier**

462 Organisation that provides services to Customers.

Name	Type	Description
ID	*string*	Unique identifier of this service supplier.
issuerIdentificationNumber	*string*	Unique transaction reference prefix number issued to an entity by the International Standards Organisation for the purpose of tagging onto electronic financial transactions, as defined in ISO/IEC 7812-1 and ISO/IEC 7812-2.
kind	*SupplierKind*	Kind of supplier.
name	*string*	The human-readable name for the service supplier.

463

464 **WEQ-019.4.2** **Energy Usage Information and Format and Use**

465 **WEQ-019.4.7.2.1** The Energy Usage Information Model is developed using a UML modeling tool. The
466 Model classes, attributes, types and descriptions are included in WEQ-019.4.7. The
467 Model is made available as XMI, which is the standard XML import/export format for
468 UML. The Model is exported as HTML, and made available as a downloadable archive
469 viewable with a web browser.

470 **WEQ-019.4.3** **Energy Usage Information Model Technical Consideration**

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WEQ-019.4.3.1 *The Energy Usage Information Model will used as the basis for Smart Grid interfaces exchanging customer usage information between energy services providers.*

WEQ-019.4.3.2 *The Energy Usage Information Model will be configured to allow schemas to be generated from it, using XML Schema Definition Language (XSD). This format defines the valid structures and types for XML documents that may carry the model information.*

WEQ-019.4.3.3 *Implementations may decide to include only a subset of the elements defined in the model.*

WEQ-019.4.3.4 *The example XSD shall conform to Naming and Design Rules best practices as described by IEC 62361-100, Naming and Design Rules for CIM Profiles to XML Schema Mapping.*

WEQ-019.4.3.5 *The model and schema shall support multiple information exchange standards, including WS-I Basic Profile Web Services, RESTful Web Services, or other conventions. These specifics are left to implementers to define.*

WEQ-019.4.3.6 *Though there may be elements useful for transfer of security-related information elements in the model, the specific details related to how to protect sensitive information, and how to authorize specific roles or identities to have access are not defined in this recommendation.*

WEQ-019.4.3.7 *A conformant specification that refines or extends this standard shall produce information for exchange that can be transformed algorithmically (that is based on the standard alone) into a form that can be validated through the method described in WEQ-019.4.3.8.*

This requirements means that various formats for representation and exchange and various subsets and potentially supersets of information content are envisioned based on this standard. The use of the schema is not to impose its direct use in message validation. Rather its use is intended to facilitate verification of conformance to the information model with respect to message content and semantics without imposing constraints on specific message payload schemas and data element representations. Some representations are anticipated to be entirely binary in nature. Others will trade off strings for integer representations of information contents. Regardless of the means, the information should be convertible to be testable as described herein.

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WEQ-019.4.3.8 *A specification that claims conformance to this standard shall describe and define an automatable transformation from that specification's model to and from this UML Model, including indicating listing of attributes used and not used.*

WEQ-019.4.3.9 *Conformant specifications shall include the following required core model elements exchanged between data provider and data consumer in their defined messages:*

- *One or more measurement or summary containers: IntervalReading, Reading, PowerQualitySummary, UsageSummary*
- *Two of the following attributes, for each IntervalReading: timeStamp, endTimeStamp, duration*
- *value (the value of the measurement, from IntervalReading or Reading)*
- *ReadingType – ID, defaultQuality, direction, kind, multiplier, name, unit*
- *ReadingType ID for each measurement (IntervalReading or Reading) (exists in model through MeterReading)*
- *Measurement source / location – ServiceDeliveryPoint.ID or MeterAsset.ID and association to measurements or summary*

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APPENDIX A Principle Verifications Against The Energy Information Usage Model

WEQ-019.4.4 Requirements validation method

A complete requirements process involves a sequential breakdown of a problem starting with the collection of high level functional user requirements. The high level requirements are broken down into ever more specific derived requirements. Eventually you get to design requirements. At the bottom of the requirements tree are simple, testable, atomic requirements. When the atomic requirements are met, the tracing to the higher level requirements allows them to be met by definition.

The PAP10 charter – the text of the abstract, description, and objectives from the NIST Framework – are high level user requirements {insert reference to NIST Framework Rev 1.0}. The requirements presented in 0 can be considered the first level requirements breakdown of derived requirements.

This standard does not go to the final level of detailed design requirements. Instead, we performed a parallel assessment of the "derived requirements" against the evolving model, which itself was initially derived from detailed requirements identified in activities external to this standard.

Here is a sample requirement and how it is verified:

<<*requirement reference*>>	*Standard load and usage information shall enable improved energy efficiency by defining a consistent way to communicate usage information.*
	In the Model, There is at least one Schema, see {reference} produced as a part of this standard. With a schema at least one specific consistent way to communicate usage information is thereby specified. Thus, the presence of the agreed upon schema or equivalent satisfies this requirement.

WEQ-019.4.4.1 General

WEQ-019.4.4.1.1 *Facilities shall include residences, buildings, and industrial installations*

No specific limit as to the nature of the facility appears in the EUI model. Identifiers are for user, location, and device only.

WEQ-019.4.4.1.2 *Usage and load information shall be readily available*

While the availability of information is the realm of the utility and its customer, this model facilitates availability by providing a single simple information model for client applications

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550	*WEQ-019.4.4.1.3*	*PAP 10 is an information model concept which is transport agnostic.*
551 552 553		Because it is defined within a UML model as a series of classes and no services are specifically defined in the standard for those classes, it is by this definition transport agnostic.
554	**WEQ-019.4.4.2**	**Timeliness of Delivery**
555 556	*WEQ-019.4.4.2.1*	*Customers shall be able to use the information defined in these standards for real-time feedback on present and projected performance*
557 558		There are no constraints on time stamps, latency or performance imposed by the model, so it is possible to represent past, present, or future usage.
559 560	*WEQ-019.4.4.2.2*	*Premises based systems (e.g. EMS/ESI) shall be able to use the information defined in these standards for real-time feedback on present and projected performance*
561 562		There are no constraints on time stamps, latency or performance imposed by the model, so it is possible to represent past, present, or future usage.
563 564	*WEQ-019.4.4.2.3*	*Information exchanged shall be delivered in sufficient time to affect usage ["and this is the definition of real-time and near real-time "]*
565 566		There are no constraints on time stamps, latency or performance imposed by the model, so it is possible to represent past, present, or future usage.
567 568	*WEQ-019.4.4.2.4*	*Operations, Distribution, and Service Providers shall be able to use the information defined in these standards with the facility in near-real-time*
569 570		There are no constraints on time stamps, latency or performance imposed by the model, so it is possible to represent past, present, or future usage.
571 572	*WEQ-019.4.4.2.5*	*Customers and premises-based systems shall be able to use the information defined in these standards to provide real-time feedback on present and projected performance*
573 574		There are no constraints on time stamps, latency or performance imposed by the model, so it is possible to represent past, present, or future usage.
575	**WEQ-019.4.4.3**	**Benefits to Facilities**
576 577	*WEQ-019.4.4.3.1*	*Standard load and usage information shall enable improved energy efficiency by defining a consistent way to communicate usage information.*
578 579 580 581		By minimizing the number of different physical representations of usage information, and aligning the logical elements included in the definition of this information, it will allow for the development of applications that require this information to provide energy efficiency services and functionality.
582 583	*WEQ-019.4.4.3.2*	*Standard load and usage information shall enable helping [all] Customers and operations manage their energy usage [and load]*

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The data model standardizes load and usage information so customer usage data provider services may be developed to interface with systems that help customers and operations with energy management.

WEQ-019.4.4.3.3 *Standard load and usage information shall enable improved [facility] energy usage by availability of fine grained and timely information*

The data model standard provides for measurement intervals enabling the availability of fine grained and timely load and usage information.

WEQ-019.4.4.3.4 *Availability of fine grained and timely information will enable better decisions about energy usage and conservation*

The data model enables a standard approach for fine grained and timely load and usage information so customer usage data provider services can interface to systems that help customers and/or operations with energy conservation.

WEQ-019.4.4.3.5 *Facilities will benefit from consistent usage information exchange inside the facility, including meeting the energy efficiency goals of EISA 2007 and DOE initiatives*

The data model provides consistent energy usage data representation so information exchanges are uniformly understood. This ensures facility energy efficiency systems using this data are acting on correct and consistent information.

WEQ-019.4.4.3.6 *Standard model shall support aggregated projections that can be passed on to operations[the System Operator's] or [building management] [?] make forecasting and management better and increase the value of a facility to the Smart Grid*

Aggregated projections are supported via future timestamps in interval and other data.

WEQ-019.4.4.3.7 *Sharing usage and load information inside a facility makes that facility more valuable to the Smart Grid*

The data model provides usage, load, and pricing information from which a facility manager or system may take optimization actions.

WEQ-019.4.4.3.8 *The information exchanged shall allow integration of usage information throughout facility decision processes*

The data model standardizes usage information so customer usage data provider services may be developed to integrate with systems handling facility decision processes.

WEQ-019.4.4.4 **Benefits to Grid and Service Provider Operations**

WEQ-019.4.4.4.1 *Standard load and usage information will improve forecasting and grid management by delivering aggregated projections to operations.*

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By specifying future intervals, which could be larger than measured intervals, it is possible to represent aggregated projections.

WEQ-019.4.4.4.2 *Standard load and usage information will improve forecasting and grid management by delivering aggregated projections to service providers.*

By specifying future intervals, which could be larger than measured intervals, it is possible to represent aggregated projections.

WEQ-019.4.4.4.3 *Standard load and usage information will enable more responsive facilities.*

Interoperable models of load and usage information allow coordination of response capability, allowing those capabilities to be utilized more efficiently.

WEQ-019.4.4.4.4 *Standard load and usage information will enable early deployment of devices that deliver and understand usage information.*

By standardizing the information to be made available, devices and applications will be able to get access to that information.

WEQ-019.4.4.5 **Internet-Like Future**

WEQ-019.4.4.5.1 *Standard usage and load information enables innovation in novel ways to help customers manage energy usage.*

By standardizing on simple data sets that many providers and consumers can utilize, this information can be combined with additional information to find the specific way that will help customers the most.

WEQ-019.4.4.5.2 *Standard usage and load information enables innovation by third party service and software providers.*

By standardizing on simple data sets that many providers and consumers can utilize, this information can be combined with additional information to find the specific way that will help customers the most.

WEQ-019.4.4.6 **Improved Collaboration**

WEQ-019.4.4.6.1 *The Information model shall not restrict two way flows of information.*

Customers, utilities and third parties will have access to the model in real time with the appropriate usage information and customer permissions/allowances.

WEQ-019.4.4.6.2 *By standardizing usage and load information exchange, devices that deliver and understand usage and load can be deployed more quickly, contributing to achieving the energy efficiency goals of EISA 2007 and DOE.*

Uniformity among signals as required by the model standards will lead to greater acceptance and adoption.

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WEQ-019.4.4.7 Information Sources and Accessibility

WEQ-019.4.4.7.1 *Usage and load information shall be provided by utilities and aggregating service providers and may be provided by others.*

With consent from the customer, utilities and aggregators will provide access to usage and load information in the provided format for model integration.

WEQ-019.4.4.7.2 *Usage and load information shall be provided by devices and EMS/ESI implementations.*

With consent from the customer, devices and EMS/ESI implementations will provide usage and load information in the provided format for model integration.

WEQ-019.4.4.7.3 *Usage and load information can be accessed from the meter.*

With consent from the customer and the utility, usage and load information will be provided by the meter to accredited sources for purposes of running the model.

WEQ-019.4.4.7.4 *Usage and load information can be accessed from the Smart Grid.*

With consent from the customer and the utility, usage and load information will be made available by any Smart Grid services provider via the public Internet.

WEQ-019.4.4.8 Interactions and Information Exchanges Supported

WEQ-019.4.4.8.1 *Interactions supported shall include those between Distribution [and Operations] and the industrial, commercial, and residential premises.*

The model does not exclude/include specific actors or potential exchange points, it merely describes data and format of information.

WEQ-019.4.4.8.2 *Standard information models and understanding of usage and load are essential to cross domain interactions between Distribution [and Operations]: and Industrial, Commercial, Residential, and PEVs.*

The standard information format does not exclude potential actors or exchange points including potential cross domain interaction including those between Distribution companies and other actors.

WEQ-019.4.4.8.3 *Interactions supported shall include those between Distribution [and Operations] and the industrial, commercial, residential premises, and plug-in electric vehicles.*

The model does not exclude/include specific actors or potential exchange points, it merely describes data and format of information.

WEQ-019.4.4.8.4 *Standard information models and understanding of usage and load are essential to cross domain interactions between Service Providers: and Industrial, Commercial, Residential, and PEVs.*

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The standard information format does not exclude potential actors or exchange points including potential cross domain interaction including those between Service Providers and other actors.

WEQ-019.4.4.8.5 *Interactions supported shall include those between Service Providers and the industrial, commercial, residential premises, and plug-in electric vehicles.*

The model does not exclude/include specific actors or potential exchange points, it merely describes data and format of information therefore by not excluding these actors.

WEQ-019.4.4.8.6 *This effort shall support information standards for load curtailment, load shaping, and energy market operations, hence load and usage must be supported (see PAP09, PAP03, and PAP04).*

Load and usage information are part of the model.

WEQ-019.4.4.8.7 *Information exchanges shall include to, from, and within facilities.*

The model does not preclude any potential exchange points therefore the requirement is met.

WEQ-019.4.4.9 **Information Characteristics**

WEQ-019.4.4.9.1 *Information model shall support exchange of both Fine Grained and summary information.*

Summary information is available at the top level through PowerQualitySummary and UsageSummary components. Fine-grained information is available through the list of MeterReading measurement structures which in turn have both summary, Reading, and interval level detail, IntervalReading components. Additionally, the EUI data structures can be associated by device, location, and owner facilitating variable aggregations.

WEQ-019.4.4.9.2 *Fine grained means that there is disaggregated information. Disaggregated information can include for example load, subsystem, premise, and variable time interval.*

Fine grained (disaggregated) information is described throughout the information model. From CustomerAccount, EventType, MeterAsset, ReadingKind, etc. there seems to be enough detailed data elements to support "Fine grained" information.

WEQ-019.4.4.9.3 *Support for exchanging standard historical, present, and projected load information is required.*

Historical information seems to be supported by the UsageSummary attributes for billing items only. Present (meter reading) information has fine grained as well as billing attributes defined. Projected usage is supported in the

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QualityOfReading <<enumeration>> attribute, which delineates the "estimated" and "forecast" attribute names.

WEQ-019.4.4.9.4 *Energy Usage Information shall include usage, usage profile, and some component of cost (consistent with PAP03, PAP04)*

Energy usage information, including costs is contained in the data model. Interval data is supportive of usage profiles and PAP04.

WEQ-019.4.4.9.5 *The PAP 10 Energy Usage Information model shall allow for exchange of greater or lesser detail.*

Summary information is available at the top level through PowerQualitySummary and UsageSummary components. Fine-grained information is available through the list of MeterReading measurement structures which in turn have both summary, Reading, and interval level detail, IntervalReading components. Additionally, the EUI data structures can be associated by device, location, and owner facilitating variable aggregations.

WEQ-019.4.4.10 **Timing and Goals**

WEQ-019.4.4.10.1 *Initial steps include making usage information more readily available by defining and standardizing usage information [delivered] through existing SG infrastructure.*

The EUI data structures enable a diverse range of technologies to deliver usage information in a timely and protocol agnostic manner. Examples of this might be a premise ESI or through services provided by a utility or facility.

WEQ-019.4.4.10.2 *Information on device and facility usage is a primary goal in the initial focus.*

As the EUI data structures cover summary and device level information, device and facility (aggregated) information can be delivered.

WEQ-019.4.4.10.3 *Standard load and usage information will enable early deployment of devices that deliver and understand usage information.*

As the EUI data models are standardized, producers may deliver usage based devices with confidence in interoperability.

WEQ-019.4.4.11 **Requirements on Quality of Consensus Standard**

The information model shall support:

WEQ-019.4.4.11.1 *Consistent data representation for REST & Web Services.*

The Schema in section WEQ-019.4.3 ensures that a consistent data representation can be achieved when a Schema is developed in a supporting standard carrying EUI in REST and Web Services.

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754	*WEQ-019.4.4.11.2*	*Specification of transactional exchange, syntax, and required population of the*
755		*information model are beyond the scope of these requirements.*
756		No transactional syntaxes or message services are defined in this standard.
757	*WEQ-019.4.4.11.3*	*an extensible information model – e.g. ability to add custom extensions as needed*
758		This model may be extended by adding new elements (classes, attributes, and
759		associations). Implementations must utilize conventions to ignore any elements
760		not understood by components, to allow them to continue to operate when
761		future extensions are added.
762	*WEQ-019.4.4.11.4*	*have an evolvable information model – e.g. the standards process supports future*
763		*revisions*
764		**Error! Reference source not found.** identifies how the model is evolvable.
765		Section WEQ-019.4.3.7 defines how the standard version can be revised.
766	*WEQ-019.4.4.11.5*	*Forward compatible as we evolve*
767		To maintain forward and backward compatibility, no model elements may be
768		removed or restricted in future versions. Only additions and expansions are
769		allowed, so that previous version representations maintain validity against future
770		versions, and vice-versa.
771	*WEQ-019.4.4.11.6*	*Supportive of versioning*
772		Versioning in the UML Model is addressed by a tagged value. The tagged value
773		"version" is used additionally in the XML Schema export (see WEQ-019.4.3) as
774		the schema version value.
775	*WEQ-019.4.4.11.7*	*Usable without "knowing all the details"*
776		Information in the model is arranged hierarchically. Greater detail can be
777		understood the deeper into this hierarchy the reader goes. Summary information
778		is exposed near the top of the hierarchy. These arrangements make it
779		straightforward to accessing applications to ignore the level of detail they do not
780		plan to use or comprehend, while getting value out of higher level information.
781		*More flexibility for independent innovation shall be achieved through:*
782	*WEQ-019.4.4.11.8*	*Focus on information exchanged*
783		The specification of an information-only model allows the standard to focus on
784		the information exchanged.
785	*WEQ-019.4.4.11.9*	*Agreed upon interfaces are maintained over time*
786		See section WEQ-019.4.3.7 which describes

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787	*WEQ-019.4.4.11.10*	*Minimal details = maximum interoperation*
788 789 790		The model provides a hierarchy of summary and detailed information. A balance is achieved by the definition of minimal set of details necessary to satisfy the cumulative set of use cases of the EUI and allocated to this model.
791	*WEQ-019.4.4.11.11*	*Intellectual Property Rights shall be clear & clean*
792		[Need section on IPR and access to model and schema]
793		*Results of PAP 10 shall produce:*
794	*WEQ-019.4.4.11.12*	*Information model and XML schema*
795 796		See sections WEQ-019.4.2 and WEQ-019.4.3 which describe the delivery of an information model and XML schema respectively.
797	*WEQ-019.4.4.11.13*	*At information exchange level*
798 799 800		The information model is designed to be exchanged between participants. The information model and XML Schema provide the specificity to define an information exchange, but stops short of mandating one (see WEQ-019.4.3.7).
801		*The information model shall be:*
802	*WEQ-019.4.4.11.14*	*Readable without charge*
803 804		NAESB has agreed to make the Energy Usage Information Model included in WEQ-019.4.7and WEQ-019.4.7.1available to the public without charge.
805	*WEQ-019.4.4.11.15*	*Reusable without restriction or charge*
806 807		The use of the Energy Usage Information Model included in WEQ-019.4.7 and WEQ-019.4.7.1 for the production of derivative work products is not prohibited.
808	*WEQ-019.4.4.11.16*	*Adaptable without restriction or charge*
809 810		All NAESB standards maybe modified through the NAESB process. (Please see: http://www.naesb.org//misc/naesb_process_for_standards_dev.doc)
811	*WEQ-019.4.4.11.17*	*Usable for open source*
812 813 814		The use of the Energy Usage Information Model included in WEQ-019.4.7and WEQ-019.4.7.1.maybe distributed in any manner, however, must be made available without charge.

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WEQ-019.4.4.12 Additional Considerations

WEQ-019.4.4.12.1 *In communicating energy usage information, the Energy Usage Information Model should be used and the information outlined within the model should be available.*

The model provides a common, consensus-based, vendor-neutral model to represent usage information, to be used in exchange scenarios where it is applicable and desired by usage information providers and Customers.

WEQ-019.4.4.12.2 *The Energy Usage Information Model data set has three unique identifiers, which serve the purpose of allowing various aggregations of data sets.*

Owner (customer): This is represented by the Customer class, provided the use of the term "owner" or similar verbiage is not indicative or dispositive of any ownership or other rights under applicable law in the Model or any data.

Location: This is represented by ServiceDeliveryPoint.

Device: This is represented by MeterAsset.

WEQ-019.4.4.12.3 *The Tariff Profile component should be included in the Energy Information Usage Model.*

Recommend marking as a "Future" – TariffProfile provides the representation of the rate elements, and would expand the scope beyond our initial target schedule.

WEQ-019.4.4.12.4 *UsageSummary should include an optional cost attribute to interval and reading class.*

Recommend marking as "Future".

WEQ-019.4.4.12.5 *A known base currency should be included in the top level class associated with the MeterAsset for the Energy Usage Information Model, which would be applicable to all instances*

Recommend marking as "Future" – If performance considerations require optimization, global defaults for this and other repetitious elements should be considered.

WEQ-019.4.4.12.6 *The Energy Usage Information Model should be compliant with ISO8601.*

The current model does not define the primitive to be used to represent the dateTime, however the default xs:dateTime is ISO8601 compliant.

WEQ-019.4.4.12.7 *Optionally, both start and end of interval can be defined in order to support non-uniform interval information, which is accomplished in the Energy Information Usage Model through endTimestamp to IntervalReading.*

The endTimeStamp element is included as an optional component of IntervalReading.

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849	*WEQ-019.4.4.12.8*	*Demand based elements are maintained in the TariffProfile including common demand*
850		*and demand ratchets.*
851		The model does not currently contain the full definition of TariffProfile, but this
852		is the CIM element where thresholds associated with the rate are specified.
853	*WEQ-019.4.4.12.9*	*The Energy Information Usage Model status structure includes a named pair of*
854		*QualityOfReading and values of raw, forecast, validated, estimated, mixed, and other for*
855		*qualifying the associated data set, as an explicit representation of these name value pairs*
856		*can be processed in implementations by sending and receiving actors. The*
857		*UsageSummary class also includes such summary information.*
858		Model is specified as described.
859	*WEQ-019.4.4.12.10*	*MeterEvent should be associated with meterAsset, not MeterReading.*
860		The events are currently associated to the MeterAsset through MeterReading,
861		but could be represented in other ways if the group decides this should be
862		changed.
863	*WEQ-019.4.4.12.11*	*PQSummary as events of enumerated type are provided in the Energy Information Usage*
864		*Model to represent a simple exposure of summary information.*
865		The model exposes these events in summary form as described.
866	*WEQ-019.4.4.12.12*	*The Energy Usage Information Model should represent and take into account pollutant*
867		*energy emissions such as O2, SO2, and NOX.*
868		Detailed information about these emissions is possible through definition of a
869		ReadingType specifying the appropriate kindReading values as enumerated in
870		ReadingKind.
871	*WEQ-019.4.4.12.13*	*Energy Usage Information Model should include a top level cost summary – billStart,*
872		*billEnd, billToDate, lastPeriod, and costAdditional, so that the bill to date and bill as of*
873		*the last billing period could be conveyed through a formula:*
874		billLastPeriod = costAdditionalLastPeriod + ∑MeterReading[i].Reading.cost
875		(constrained by datetime)
876		The model represents these elements in the UsageSummary class.
877	*WEQ-019.4.4.12.14*	*The model shall use the work being produced by OASIS on common schedule*
878		*information pursuant to the SGIP PAP04 Requirements. As this work is not complete as*
879		*of this draft, the abstract definition of time intervals is the most appropriate way to*
880		*ensure consistency.*
881		TBD – Group to discuss alignment with PAP04
882	*WEQ-019.4.4.12.15*	*The model shall use the work being produced by OASIS on common price and product*
883		*definition information pursuant to the SGIP PAP03 Requirements. As this work is not*

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884 *complete as of this draft, should information related to price be included in the Seed*
885 *Specification it must be at an appropriate level of abstraction.*

886 TBD – Group to discuss alignment with PAP03

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4. SUPPORTING DOCUMENTATION

a. Description of Request:

b. Description of Recommendation:

c. Business Purpose:

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

NAESB Process for Standards Development -
http://www.naesb.org//misc/naesb_process_for_standards_dev.doc

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1. RECOMMENDED ACTION:

X	Accept as requested
	Accept as modified below
	Decline

EFFECT OF EC VOTE TO ACCEPT RECOMMENDED ACTION:

X	Change to Existing Practice
	Status Quo

2. TYPE OF DEVELOPMENT/MAINTENANCE

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

3. RECOMMENDATION

SUMMARY:

The Joint Retail Electric (REQ) and Wholesale Electric (WEQ) Quadrants' PAP 10 Smart Grid Subcommittee submit this Recommendation for 2010 Retail Annual Plan Item No. 9d and WEQ Annual Plan Item No. 6d – Business Practices and Information Models to support Priority Action Plan 10, "Standardized Energy Usage Information," based on the Tiger Team Report issued on June 22, 2010 by the NIST SGIP PAP10 Committee.

In initiating this standards development, NAESB agreed to by year-end 2010 develop an energy use information model standard defining information to be communicated between utilities, third parties and energy use customers, via customer devices and/or 3rd Party energy services providers. The basic energy usage information model standard will let energy services providers exchange detailed energy use and cost information in a consistent format on behalf of customers. Doing so will let Customers track their power use and help them manage energy consumption and cost. Without a standardized format for representing energy use data, a variety of approaches could emerge, leading to incompatibilities among energy management products and services. It is planned that the American Society of Heating, Refrigerating and AC Engineers (ASHRAE) will extend the NAESB standard to create a facilities data model providing additional energy use data elements for facility energy management including buildings.

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RECOMMENDED STANDARDS:

REQ.18 CUSTOMER ENERGY USAGE INFORMATION COMMUNICATION

EXECUTIVE SUMMARY

This section presents a summary of the Model Business Practices for Retail Customer Energy Usage Information communication. Specifically, these Model Business Practices establish a model for Energy Usage Information to be communicated in a consistent format among a variety of Entities, potentially including Distribution Companies, Energy Service Providers, meter-reading entities, and Retail Customers, via devices owned by Retail Customers and/or Energy Services Providers. Establishment of this model will let Retail Customers track their energy use and help them manage energy consumption and costs.

This document contains Model Business Practices establishing a model for communication of Retail Customer Energy Usage Information. The Model Business Practices do not require that wholesale electricity markets administered by System to adopt this model since System Operators generally are not the system of record for individual Retail Customer Energy Usage Information and load data or individual Retail Customer forecasted usage and load data. These Model Business Practices are not intended to replace applicable Governing Documents, and in the event of a conflict, the latter documents shall have precedence over these standards. Without limiting the foregoing, these Model Business Practices are only applicable to the extent the information covered by this model is collected, managed or communicated pursuant to the applicable Governing Documents.

Retail Customer Energy Usage Information communication encompasses a variety of interactions between Distribution Companies, Retail Customers and Energy Services Providers. In a business environment where best practices are voluntary, Model Business Practices such as those in this document may be applied within the context of regulatory or other market requirements and agreements.

INTRODUCTION

The North American Energy Standards Board (NAESB) is a voluntary, non-profit organization comprised of members from all aspects of the natural gas and electric industries. Within NAESB, the Retail Electric Quadrant (REQ) and the Retail Gas Quadrant (RGQ) focus on issues impacting the retail sale of energy to end-use Retail Customers. REQ / RGQ Model Business Practices are intended to provide guidance to Distribution Companies, Suppliers, and other Market Participants involved in providing competitive energy service to end-use Retail Customers. The focus of these Model Business Practices is the representation of Retail Customer Energy Usage Information. System Operators do not generally communicate with Retail Customers and are not the system of record for individual Retail Customer Energy Usage Information or individual Retail Customer load forecast.

These Model Business Practices are voluntary and do not address policy issues that are the subject of state legislation or regulatory decisions. These Model Business Practices have been adopted

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with the realization that as the industry evolves, additional and amended Model Business Practices may be necessary. Any industry participant seeking additional or amended Model Business Practices (including principles, definitions, data elements, process descriptions, and technical implementation instructions) should submit a request to the NAESB office, detailing the change, so that the appropriate process may take place to amend the Model Business Practice.

BUSINESS PROCESSES AND PRACTICES

Overview

The business processes and practices described below are not presently applicable to Wholesale Markets because Wholesale Markets do not generally communicate directly with Retail Customers and are not the system of record for individual Retail Customer Energy Usage Information or individual Retail Customer load forecast. The model and these business processes and practices are not required of System Operators. As the model and these business processes and practices evolve, System Operators may determine that use of the model or these business processes can be applied to other information. However, such use is not intended to replace or supplant applicable Governing Documents. Without limiting the foregoing, these Model Business Practices are only applicable to the extent the information covered by this model is collected, managed or communicated pursuant to the applicable tariff, market rules, operating procedures, protocols or manuals.

REQ.18.1 Principles

REQ.18.1.1 Overall Principles

REQ.18.1.1.1 These Model Business Practices provide a Retail Customer Energy Usage Information model, defining a collection of structured Energy Usage Information elements needed by Retail Customers, to allow management of their energy efficiency and costs, including environmental impacts.

REQ.18.1.1.2 The Energy Usage Information model is specified in UML, which is syntax neutral, so that it may be used within exchange protocols using a variety of specific representation syntax and exchange mechanisms, specified separately.

REQ.18.1.1.3 The recommended use of the Energy Usage Information model is in implementation specifications exposing Customer Energy Usage Information. Specifications that conform to the model shall contain semantically equivalent representations of all required and included model elements, resulting in straightforward, lossless transformations between conformant specifications.

REQ.18.1.2 General Principles

This section describes the requirements for the Energy Usage Information model defined in these Model Business Practices. It is specifically not intended to represent

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requirements for use of the Model Business Practices. Rather, it describes the potential overlapping needs of a robust model that can satisfy the many current and anticipated future needs for exchange of Energy Usage Information.

The following list of objectives represents a series of intended outcomes from the implementation of Model Business Practices defining Energy Usage Information. The goals and objectives herein do not require the regulated wholesale or retail Entity, in control of such information, to provide in the defined format or release such information, except where required under their Governing Documents and only to the Parties that are identified in the Governing Documents to receive such information. The Wholesale Market does not communicate with the individual Retail Customer, nor does the Wholesale Market forecast energy consumption for individual Retail Customers. The Wholesale Market does not use individual Retail Customer Energy Usage Information in their settlement unless specified in or supported by their Governing Documents. Statements idealizing intended outcomes do not hold the regulated Entity responsible for any actions taken or results of the actions of the receiving party.

For each requirement stated, there is an explanatory verification paragraph describing how the model in Appendix A satisfies the requirement.

REQ.18.1.2.1 General

REQ.18.1.2.1.1 Facilities shall include residences, buildings, and industrial installations

REQ.18.1.2.1.2 Usage and load information shall be readily available

REQ.18.1.2.1.3 PAP 10 is an information model concept which is transport agnostic.

REQ.18.1.2.2 Timeliness of Delivery

REQ.18.1.2.2.1 Customers shall be able to use the information defined in these standards for real-time feedback on present and projected performance

REQ.18.1.2.2.2 Premises based systems (e.g. EMS/ESI) shall be able to use the information defined in these standards for real-time feedback on present and projected performance

REQ.18.1.2.2.3 Information exchanged shall be delivered in sufficient time to affect usage ["and this is the definition of real-time and near real-time "]

REQ.18.1.2.2.4 Operations, Distribution, and Service Providers shall be able to use the information defined in these standards with the facility in near-real-time

REQ.18.1.2.2.5 Customers and premises-based systems shall be able to use the information defined in these standards to provide real-time feedback on present and projected performance

REQ.18.1.2.3 Benefits to Facilities

REQ.18.1.2.3.1 Standard load and usage information shall enable improved energy efficiency by defining a consistent way to communicate usage information.

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131	*REQ.18.1.2.3.2*	*Standard load and usage information shall enable helping [all] Customers and*
132		*operations manage their energy usage [and load]*
133	*REQ.18.1.2.3.3*	*Standard load and usage information shall enable improved [facility] energy usage by*
134		*availability of fine grained and timely information*
135	*REQ.18.1.2.3.4*	*Availability of fine grained and timely information will enable better decisions about*
136		*energy usage and conservation*
137	*REQ.18.1.2.3.5*	*Facilities will benefit from consistent usage information exchange inside the facility,*
138		*including meeting the energy efficiency goals of EISA 2007 and DOE initiatives*
139	*REQ.18.1.2.3.6*	*Standard model shall support aggregated projections that can be passed on to*
140		*operations make forecasting and management better and increase the value of a facility*
141		*to the Smart Grid*
142	*REQ.18.1.2.3.7*	*Sharing usage and load information inside a facility makes that facility more valuable to*
143		*the Smart Grid*
144	*REQ.18.1.2.3.8*	*The information exchanged shall allow integration of usage information throughout*
145		*facility decision processes*
146	**REQ.18.1.2.4**	**Benefits to Grid and Service Provider Operations**
147	*REQ.18.1.2.4.1*	*Standard load and usage information will improve forecasting and grid management by*
148		*delivering aggregated projections to operations.*
149	*REQ.18.1.2.4.2*	*Standard load and usage information will improve forecasting and grid management by*
150		*delivering aggregated projections to service providers.*
151	*REQ.18.1.2.4.3*	*Standard load and usage information will enable more responsive facilities.*
152	*REQ.18.1.2.4.4*	*Standard load and usage information will enable early deployment of devices that*
153		*deliver and understand usage information.*
154	**REQ.18.1.2.5**	**Internet-Like Future**
155	*REQ.18.1.2.5.1*	*Standard usage and load information enables innovation in novel ways to help customers*
156		*manage energy usage.*
157	*REQ.18.1.2.5.2*	*Standard usage and load information enables innovation by third party service and*
158		*software providers.*
159	**REQ.18.1.2.6**	**Improved Collaboration**
160	*REQ.18.1.2.6.1*	*The Information model shall not restrict two way flows of information.*
161	*REQ.18.1.2.6.2*	*By standardizing usage and load information exchange, devices that deliver and*
162		*understand usage and load can be deployed more quickly, contributing to achieving the*
163		*energy efficiency goals of EISA 2007 and DOE.*

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164	**REQ.18.1.2.7**	**Information Sources and Accessibility**
165 166	*REQ.18.1.2.7.1*	*Usage and load information shall be provided by utilities and aggregating service providers and may be provided by others.*
167	*REQ.18.1.2.7.2*	*Usage and load information shall be provided by devices and EMS/ESI implementations.*
168	*REQ.18.1.2.7.3*	*Usage and load information can be accessed from the meter.*
169	*REQ.18.1.2.7.4*	*Usage and load information can be accessed from the Smart Grid.*
170	**REQ.18.1.2.8**	**Interactions and Information Exchanges Supported**
171 172	*REQ.18.1.2.8.1*	*Interactions supported shall include those between Distribution [and Operations] and the industrial, commercial, and residential premises.*
173 174 175	*REQ.18.1.2.8.2*	*Standard information models and understanding of usage and load are essential to cross domain interactions between Distribution [and Operations]: and Industrial, Commercial, Residential, and PEVs.*
176 177	*REQ.18.1.2.8.3*	*Interactions supported shall include those between Distribution [and Operations] and the industrial, commercial, residential premises, and plug-in electric vehicles.*
178 179 180	*REQ.18.1.2.8.4*	*Standard information models and understanding of usage and load are essential to cross domain interactions between Service Providers: and Industrial, Commercial, Residential, and PEVs.*
181 182	*REQ.18.1.2.8.5*	*Interactions supported shall include those between Service Providers and the industrial, commercial, residential premises, and plug-in electric vehicles.*
183 184 185	*REQ.18.1.2.8.6*	*This effort shall support information standards for load curtailment, load shaping, and energy market operations, hence load and usage must be supported (see PAP09, PAP03, and PAP04).*
186	*REQ.18.1.2.8.7*	*Information exchanges shall include to, from, and within facilities.*
187	**REQ.18.1.2.9**	**Information Characteristics**
188 189	*REQ.18.1.2.9.1*	*Information model shall support exchange of both Fine Grained and summary information.*
190 191	*REQ.18.1.2.9.2*	*Fine grained means that there is disaggregated information. Disaggregated information can include for example load, subsystem, premise, and variable time interval.*
192 193	*REQ.18.1.2.9.3*	*Support for exchanging standard historical, present, and projected load information is required.*
194 195	*REQ.18.1.2.9.4*	*Energy Usage Information shall include usage, usage profile, and some component of cost (consistent with PAP03, PAP04).*
196 197	*REQ.18.1.2.9.5*	*The PAP 10 Energy Usage Information model shall allow for exchange of greater or lesser detail.*

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198	**REQ.18.1.2.10**	**Timing and Goals**
199 200	*REQ.18.1.2.10.1*	*Initial steps include making usage information more readily available by defining and standardizing usage information [delivered] through existing SG infrastructure.*
201	*REQ.18.1.2.10.2*	*Information on device and facility usage is a primary goal in the initial focus.*
202 203	*REQ.18.1.2.10.3*	*Standard load and usage information will enable early deployment of devices that deliver and understand usage information.*
204	**REQ.18.1.2.11**	**Requirements on Quality of Consensus Standard**
205		*The information model shall support:*
206	*REQ.18.1.2.11.1*	*Consistent data representation for REST & Web Services*
207 208	*REQ.18.1.2.11.2*	*Specification of transactional exchange, syntax, and required population of the information model are beyond the scope of these requirements*
209	*REQ.18.1.2.11.3*	*an extensible information model – e.g. ability to add custom extensions as needed*
210 211	*REQ.18.1.2.11.4*	*have an evolvable information model – e.g. the standards process supports future revisions*
212	*REQ.18.1.2.11.5*	*Forward compatible as we evolve*
213	*REQ.18.1.2.11.6*	*Supportive of versioning*
214	*REQ.18.1.2.11.7*	*Usable without "knowing all the details"*
215		*More flexibility for independent innovation shall be achieved through:*
216	*REQ.18.1.2.11.8*	*Focus on information exchanged*
217	*REQ.18.1.2.11.9*	*Agreed upon interfaces are maintained over time*
218	*REQ.18.1.2.11.10*	*Minimal details = maximum interoperation*
219	*REQ.18.1.2.11.11*	*Intellectual Property Rights shall be clear & clean*
220		*Results of PAP 10 shall produce:*
221	*REQ.18.1.2.11.12*	*Information model and XML schema*
222	*REQ.18.1.2.11.13*	*At information exchange level*
223		*The information model shall be:*
224	*REQ.18.1.2.11.14*	*Readable without charge*
225	*REQ.18.1.2.11.15*	*Reusable without restriction or charge*
226	*REQ.18.1.2.11.16*	*Adaptable without restriction or charge*
227	*REQ.18.1.2.11.17*	*Usable for open source*

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228	**REQ.18.1.2.12**	**Additional Considerations**
229	*REQ.18.1.2.12.1*	*In communicating energy usage information, the Energy Usage Information Model should be used and the information outlined within the model should be available.*
231	*REQ.18.1.2.12.2*	*The Energy Usage Information Model data set has three unique identifiers, which serve the purpose of allowing various aggregations of data sets.*
233	*REQ.18.1.2.12.3*	*The Tariff Profile component should be included in the Energy Information Usage Model.*
235	*REQ.18.1.2.12.4*	*UsageSummary should include an optional cost attribute to interval and reading class.*
236	*REQ.18.1.2.12.5*	*A known base currency should be included in the top level class associated with the MeterAsset for the Energy Usage Information Model, which would be applicable to all instances.*
239	*REQ.18.1.2.12.6*	*The Energy Usage Information Model should be compliant with ISO8601.*
240	*REQ.18.1.2.12.7*	*Optionally, both start and end of interval can be defined in order to support non-uniform interval information, which is accomplished in the Energy Information Usage Model through endTimestamp to IntervalReading.*
243	*REQ.18.1.2.12.8*	*Demand based elements are maintained in the TariffProfile including common demand and demand ratchets.*
245	*REQ.18.1.2.12.9*	*The Energy Information Usage Model status structure includes a named pair of QualityOfReading and values of raw, forecast, validated, estimated, mixed, and other for qualifying the associated data set, as an explicit representation of these name value pairs can be processed in implementations by sending and receiving actors. The UsageSummary class also includes such summary information.*
250	*REQ.18.1.2.12.10*	*MeterEvent should be associated with meterAsset, not MeterReading.*
251	*REQ.18.1.2.12.11*	*PQSummary as events of enumerated type are provided in the Energy Information Usage Model to represent a simple exposure of summary information.*
253	*REQ.18.1.2.12.12*	*The Energy Usage Information Model should represent and take into account pollutant energy emissions such as O2, SO2, and NOX.*
255	*REQ.18.1.2.12.13*	*Energy Usage Information Model should include a top level cost summary – billStart, billEnd, billToDate, lastPeriod, and costAdditional, so that the bill to date and bill as of the last billing period could be conveyed through a formula:*
258	*REQ.18.1.2.12.14*	*The model shall use the work being produced by OASIS on common schedule information pursuant to the SGIP PAP04 Requirements. As this work is not complete as of this draft, the abstract definition of time intervals is the most appropriate way to ensure consistency.*
262	*REQ.18.1.2.12.15*	*The model shall use the work being produced by OASIS on common price and product definition information pursuant to the SGIP PAP03 Requirements. As this work is not complete as of this draft, should information related to price be included in the Seed Specification it must be at an appropriate level of abstraction.*

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REQ.18.2 Energy Usage Abbreviations, Acronyms and Definition of Terms

REQ.18.2.1 Business Definitions

REQ.18.2.1.1 Applicable Regulatory Authority

The state regulatory agency or other governing body that provides oversight, policy guidance, and direction to any parties involved in the process of providing energy to Retail Customers through regulations and orders.

REQ.18.2.1.2 (Retail) Customer

Any Entity that takes gas and/or electric service for its own consumption.

REQ.18.2.1.3 Distribution Company

A regulated Entity which provides distribution services and may provide energy and/or transmission/transportation services in a given area.

REQ.18.2.1.4 Entity

A person or organization with sufficient legal standing to enter into a contract or arrangement with another such person or organization (as such legal standing may be determined by those parties) for the purpose of conducting and/or coordinating energy transactions.

REQ.18.2.1.5 Governing Documents

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

REQ.18.2.1.6 Market Participant

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

REQ.18.2.1.7 Model Business Practices

TBD

REQ.18.2.1.8 Supplier

Persons engaged in the competitive sale of energy to end-users.

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REQ.18.2.2 Technical Definitions

This section contains technical terms and abbreviations used in this recommendation.

REQ.18.2.2.1 Energy Management System (EMS)

An application used for controlling multiple energy-controllable devices (e.g., pool pump, Programmable Communicating Thermostat, light switches, PEV charging, etc.). This application may reside within a HAN Device (e.g. Programmable Communicating Thermostat, In-Home Display, computer, cable set-top box, other computing device, etc.). This application may also control other devices or systems in the home providing integrated automated services for the Consumer.

REQ.18.2.2.2 Energy Services Interface (ESI)

A secure interface to a premises communications network (i.e. HAN) which facilitates relevant energy applications (e.g. remote load control, demand response, monitoring and control of DER, in-premises display of energy usage, reading of energy and non-energy meters, PEV charging and roaming coordination, and integration with energy management systems, etc.), provides auditing / logging functions that record transactions to and from HAN Devices, and, often, coordination functions that enable secure transactions between the HAN Devices Commissioned and Registered on its network and Enrolled in a Service Provider program.

REQ.18.2.2.3 Energy Services Provider

An entity (e.g. Utility, retail electric provider, demand response aggregator, etc.) which provides energy services to Customers.

REQ.18.2.2.4 Energy Usage Information

TBD

REQ.18.2.2.5 Facility

TBD

REQ.18.2.2.6 Fine Grained

Characterized by abundant use of detail or thoroughness of treatment.

REQ.18.2.2.7 Operations

One of the seven domains identified in the NIST Framework and Roadmap, defined there as “The managers of the movement of electricity”. This could apply to operators of equipment within any of the other domains.

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REQ.18.2.2.8 Real-time

Refers to the ability of a component to process input at the rate it is received.

REQ.18.2.2.9 Regional Transmission Organization

TBD

REQ.18.2.2.10 Seed Specification

TBD

REQ.18.2.2.11 Smart Grid

TBD

REQ.18.2.2.12 System Operator

TBD

REQ.18.2.2.13 Wholesale Market

TBD

REQ.18.2.3 Abbreviations and Acronyms

Abbreviation / Acronym	Meaning
EUI	Energy Usage Information
UML	Unified Modeling Language
EMS	Energy Management System
ESI	Energy Services Interface
PEV	Plug-in Electric Vehicle

REQ.18.3 Energy Usage Information Model Business Practices

REQ.18.3.1 Introduction

The focus of these Model Business Practices is the representation of Energy Usage Information. As defined in [PAP10 Requirements] the Energy Usage Information includes historic, present, and future projected usage and load together with the time period(s) for that information.

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These Model Business Practices draw on actors and use cases defined by the following groups:

- Energy Information Standards Alliance (the EIS Alliance) [EIS]
- NAESB Survey and Consolidation of PAP10 Use Cases [NAESB PAP10]
- UCAIug OpenADE [ADE]
- ZigBee/Home Plug Smart Energy Profile 2.0 Market Requirements [SEP MRD]

The relevant use cases are summarized as follows:

REQ.18.4.1 The ESP and/or Distribution Company communicates historic and present Energy Usage Information and load information to the Retail Customer or Facility.[1]

REQ.18.4.2 The Retail Customer or Facility communicates future projected usage and load information to the ESP, Distribution Company, or Grid Operations.[2]

REQ.18.4.3 The ESP and/or Utility communicates their projection of usage and load to the Retail Customer or Facility.[3]

REQ.18.4.4 Devices within a Facility communicate their present and future projected usage and load to Controllers or Facility EMS for aggregation and to be a component of Facility aggregated future projected usage and load.[4]

REQ.18.4.5 Devices, business processes, EMS, ESI, and other functional units within the Facility communicate usage and load information among themselves.[5]

REQ.18.4.6 These Model Business Practices are limited to the Seed Specification which shall be usable by others to build standards and/or specification for exchange of Energy Usage Information and load information appropriate to their needs without overly constraining those uses or including information that is not required in all implementations of specifications for exchanging load and usage.

REQ.18.4 Energy Usage Information Model

The model proposed is based on the IEC TC57 Common Information Model, WG13 and WG14. New elements identified in this recommendation will be proposed to these working groups, after ratification within NAESB, as extensions to be considered for inclusion in a future release of the CIM.

[1] See e.g. EIS Alliance Use Cases v2 including UC-9, UC-11, UC-12, UC-14, UC-15, and OpenADE use case "Publication".
[2] See e.g. EIS Alliance Use Cases v2 including UC-3, UC-11, UC-14, UC-15
[3] Needs refs. This is an addition to EIS and OpenADE.
[4] See e.g. EIS Alliance Use Cases v2 including UC-1, UC-2, UC-3, UC-8, UC-9.
[5] See e.g. EIS Alliance Use Cases v2 including UC-1, UC-2, UC-3

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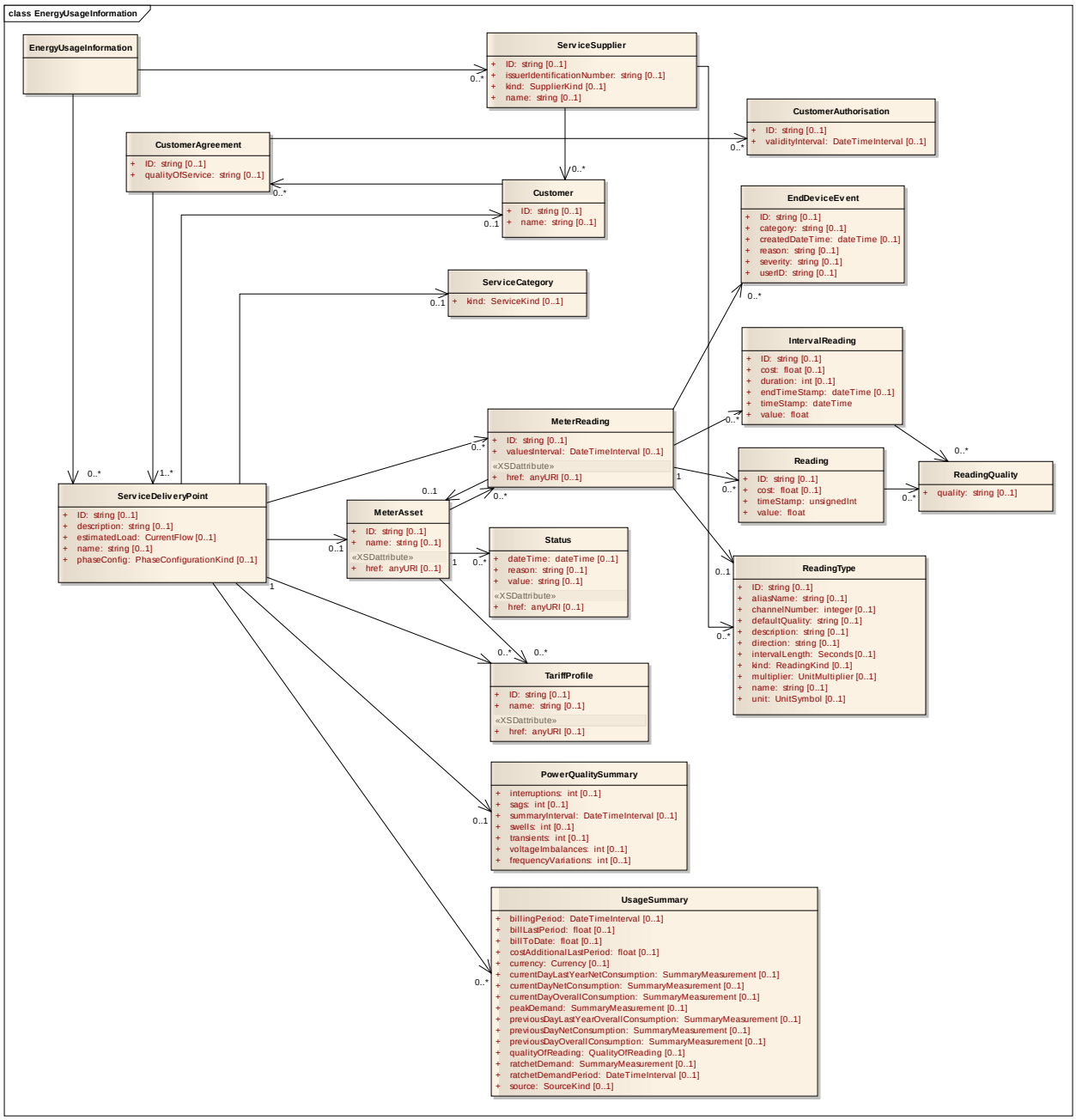

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375 **REQ.18.4.1 Energy Usage Information Model Details**

376 The following sections contain the classes and attributes defined in the model, along with
377 their descriptions. Elements tagged with <<enumeration>> define the valid values for an
378 enumerated data type.

379 **REQ.18.4.1.1 Currency** *«enumeration»*

380 Monetary currencies. Apologies for this list not being exhaustive.

Name	Type	Description
AUD		Australian dollar
CAD		Canadian dollar
CHF		Swiss francs
CNY		Chinese yuan renminbi
DKK		Danish crown
EUR		European euro
GBP		British pound
INR		India rupees
JPY		Japanese yen
NOK		Norwegian crown
other		Another type of currency.
RUR		Russian ruble
SEK		Swedish crown
USD		US dollar

381 **REQ.18.4.1.2 CurrentFlow**

382 Electrical current (positive flow is out of the ConductingEquipment into the
383 ConnectivityNode)

Name	Type	Description
multiplier	*UnitMultiplier*	Multiplier for 'unit'.
unit	*UnitSymbol*	Unit in symbol
value	*float*	Value in type of float

384 **REQ.18.4.1.3 Customer**

385 Organisation receiving services from ServiceSupplier.

Name	Type	Description

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ID	*string*	Object identifier
name	*string*	Name of an attribute.

386 **REQ.18.4.1.4 CustomerAgreement**

387 Agreement between the Customer and the ServiceSupplier to pay for service at a specific
388 ServiceLocation. It records certain billing information about the type of service provided
389 at the ServiceLocation and is used during charge creation to determine the type of
390 service.

Name	Type	Description
ID	*string*	A Model Authority issues mRIDs. Given that each Model Authority has a unique id and this id is part of the mRID, then the mRID is globally unique.
qualityOfService	*string*	Quality of service provided to customer related to contracted level of power quality events

391 **REQ.18.4.1.5 DateTimeInterval**

392 Interval of date and time.

Name	Type	Description
end	*unsignedInt*	Date and time that this interval ended.
start	*unsignedInt*	Date and time that this interval started.

393 **REQ.18.4.1.6 EndDeviceEvent**

394 Event detected by a DeviceFunction associated with EndDeviceAsset.

Name	Type	Description
ID	*string*	A Model Authority issues mRIDs. Given that each Model Authority has a unique id and this id is part of the mRID, then the mRID is globally unique.
category	*string*	Category of event resulting in this activity record.
createdDateTime	*dateTime*	Date and time this activity record has been created (different from the 'status.dateTime', which is the time of a status change of the associated object, if applicable).
reason	*string*	Reason for event resulting in this activity record, typically supplied when user initiated.
severity	*string*	Severity level of event resulting in this

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		activity record.
userID	*string*	(if user initiated) ID of user who initiated this end device event.

REQ.18.4.1.7 EnergyUsageInformation

REQ.18.4.1.8 IntervalReading

Data captured at regular intervals of time. Interval data could be captured as incremental data, absolute data, or relative data. The source for the data is usually a tariff quantity or an engineering quantity. Data is typically captured in time-tagged, uniform, fixed-length intervals of 5, 10, 15, 30, or 60 minutes.
Note: Interval Data is sometimes also called "Interval Data Readings" (IDR).

Name	Type	Description
ID	*string*	Object identifier
cost	*float*	
duration	*int*	The duration of the interval, in seconds.
endTimeStamp	*dateTime*	End interval timestamp
timeStamp	*dateTime*	The start date and time of an interval reading
value	*float*	Value in type of float

REQ.18.4.1.9 MeterAsset

Physical asset that performs the metering role of the ServiceDeliveryPoint. Used for measuring consumption and detection of events.

Name	Type	Description
ID	*string*	Object identifier
name	*string*	Meter name
href	*anyURI*	Hypertext reference pointing to a URI

REQ.18.4.1.10 MeterReading

Set of values obtained from the meter.

Name	Type	Description
href	*anyURI*	Hypertext reference pointing to a URI
ID	*string*	Object identifier
valuesInterval	*DateTimeInterval*	Interval in date time (start & end)

REQ.18.4.1.11 PhaseConfigurationKind *«enumeration»*

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Kind of phase configuration.
Note that there is an enum Wires::WindingConnection with values {D, Y, Z, Yn, Zn}. However, there are many more phase configurations than delta (threePhaseThreeWire) and wye (threePhaseFourWire), which are defined here.

Name	Type	Description
onePhaseThreeWire		
onePhaseTwoWire		
other		
threePhaseFourWire		
threePhaseThreeWire		
threePhaseTwoWire		
twoPhaseThreeWire		
twoPhaseTwoWire		

REQ.18.4.1.12 PowerQualitySummary

Name	Type	Description
interruptions	*int*	Number of interruptions
sags	*int*	Number of sags
summaryInterval	*DateTimeInterval*	Interval of summary period
swells	*int*	Number of swells
transients	*int*	Number of transients
voltageImbalances	*int*	Number of voltage imbalances
frequencyVariations	*int*	Number of frequency variations

REQ.18.4.1.13 QualityOfReading *«enumeration»*

Name	Type	Description
estimated		

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forecast		
mixed		
raw		
validated		
normalizedForWeather		
other		

417 **REQ.18.4.1.14 Reading**

418 Specific value measured by a meter or other asset. Each Reading is associated with a
419 specific ReadingType.

Name	Type	Description
ID	*string*	Object identifier
cost	*float*	Cost in a currency
timeStamp	*unsignedInt*	The date and time of a reading
value	*float*	Value in type of float

420 **REQ.18.4.1.15 ReadingKind** *«enumeration»*

421 Kind of reading.

Name	Type	Description
current		
currentAngle		
date		
demand		
energy		
other		
phaseAngle		
power		
powerFactor		
pressure		
time		
voltage		
voltageAngle		
volume		
carbonDioxide		

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NOx		
carbon		
SOx		
methane		
HCH		
perfluorocarbons		
sulfurHexafluoride		

REQ.18.4.1.16 ReadingQuality

Quality of a specific reading value or interval reading value. Note that more than one Quality may be applicable to a given Reading. Typically not unsed unless problems or unusual conditions occur (i.e., quality for each Reading is assumed to be 'Good' unless stated otherwise in associated ReadingQuality).

Name	Type	Description
quality	*string*	Quality, to be specified if different than 'Good'.

REQ.18.4.1.17 ReadingType

Type of data conveyed by a specific Reading.

Name	Type	Description
ID	*string*	A Model Authority issues mRIDs. Given that each Model Authority has a unique id and this id is part of the mRID, then the mRID is globally unique.
aliasName	*string*	The aliasName is free text human readable name of the object alternative to IdentifiedObject.name. It may be non unique and may not correlate to a naming hierarchy.
channelNumber	*integer*	Logical positioning of this measurement data.
defaultQuality	*string*	Characteristics of a data value conveyed by a specific Reading, which allow an application to understand how a specific Reading is to be interpreted.
description	*string*	The description is a free human readable text describing or naming the object. It may be non unique and may not correlate to a naming hierarchy.

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direction	*string*	Specifies the direction of flow of the measurement.
intervalLength	*Seconds*	(if incremental reading value) Length of increment interval. Interval duration specified at the IntervalReading overrides this default.
kind	*ReadingKind*	Kind of reading.
multiplier	*UnitMultiplier*	Multiplier for 'unit'.
name	*string*	Name of an attribute.
unit	*UnitSymbol*	Unit in symbol

REQ.18.4.1.18 **Seconds**

Time, in seconds

Name	Type	Description
multiplier	*UnitMultiplier*	Multiplier for 'unit'.
unit	*UnitSymbol*	Unit in symbol
value	*float*	Value in type of float

REQ.18.4.1.19 **ServiceDeliveryPoint**

Logical point on the network where the ownership of the service changes hands. It is one of potentially many service points within a ServiceLocation, delivering service in accordance with a CustomerAgreement. Used at the place where a meter may be installed.

Name	Type	Description
ID	*string*	A Model Authority issues mRIDs. Given that each Model Authority has a unique id and this id is part of the mRID, then the mRID is globally unique.
description	*string*	The description is a free human readable text describing or naming the object. It may be non unique and may not correlate to a naming hierarchy.
estimatedLoad	*CurrentFlow*	Estimated load.
name	*string*	Name of an attribute.
phaseConfig	*PhaseConfigurationKind*	Phase configuration kind.

REQ.18.4.1.20 **SourceKind** *«enumeration»*

Name	Type	Description

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consumer		
provider		
other		

438 **REQ.18.4.1.21 Status**

439 Current status information relevant to an entity.

Name	Type	Description
dateTime	*dateTime*	Date and time for which status 'value' applies.
href	*anyURI*	Hypertext reference pointing to a URI
reason	*string*	Reason code or explanation for why an object went to the current status 'value'.
value	*string*	Value in string

440 **REQ.18.4.1.22 SummaryMeasurement**

441

Name	Type	Description
multiplier	*UnitMultiplier*	
timeStamp	*dateTime*	
unit	*UnitSymbol*	
value	*float*	

442 **REQ.18.4.1.23 TariffProfile**

443 A schedule of charges; structure associated with Tariff that allows the definition of
444 complex tarif structures such as step and time of use when used in conjunction with
445 TimeTariffInterval and Charge. Inherited 'status.value' is defined in the context of the
446 utility's business rules, for example: active, inactive, etc.

Name	Type	Description
ID	*string*	Object identifier
name	*string*	Name of an attribute.
href	*anyURI*	Hypertext reference pointing to a URI

447 **REQ.18.4.1.24 UnitMultiplier** *«enumeration»*

448 The unit multipliers defined for the CIM

Name	Type	Description
c		Centi 10**-2

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d		Deci 10**-1
G		Giga 10**9
k		Kilo 10**3
m		Milli 10**-3
M		Mega 10**6
micro		Micro 10**-6
n		Nano 10**-9
none		
p		Pico 10**-12
T		Tera 10**12

449 **REQ.18.4.1.25** **UnitSymbol** *«enumeration»*

450 The units defiend for usage in the CIM

Name	Type	Description
A		Current in ampere
deg		Plane angle in degrees
F		Capacitance in farad
g		Mass in gram
h		Time in hours
H		Inductance in henry
Hz		Frequency in hertz
Hz-1		per Hertz
J		Energy in joule
J/s		Joule per second
kg/J		Mass per energy
m		Length in meter
m2		Area in square meters
m3		Volume in cubic meters
min		Time in minutes
N		Force in newton
none		Dimension less quantity, e.g. count, per unit, etc.
C		Relative temperature in degrees Celsius
ohm		Resistance in ohm

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Pa		Pressure in pascal (n/m2)
rad		Plane angle in radians
S		Conductance in siemens
s		Time in seconds
s-1		per second
V		Voltage in volt
V/VAr		Volt per volt ampere reactive
VA		Apparent power in volt ampere
VAh		Apparent energy in volt ampere hours
VAr		Reactive power in volt ampere reactive
VArh		Reactive energy in volt ampere reactive hours
W		Active power in watt
W/Hz		Watt per hertz
W/s		Watt per second
Wh		Real energy in what hours

451 **REQ.18.4.1.26 UsageSummary**

452

Name	Type	Description
billingPeriod	*DateTimeInterval*	
billLastPeriod	*float*	
billToDate	*float*	
costAdditionalLastPeriod	*float*	
currency	*Currency*	
currentDayLastYearNetConsumption	*SummaryMeasurement*	
currentDayNetConsumption	*SummaryMeasurement*	
currentDayOverallConsumption	*SummaryMeasurement*	
peakDemand	*SummaryMeasurement*	
previousDayLastYearOverallCon	*SummaryMeasurement*	

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sumption		
previousDayNetConsumption	*SummaryMeasurement*	
previousDayOverallConsumption	*SummaryMeasurement*	
qualityOfReading	*QualityOfReading*	
ratchetDemand	*SummaryMeasurement*	
ratchetDemandPeriod	*DateTimeInterval*	
source	*SourceKind*	

453 **REQ.18.4.1.27** **ServiceKind** *«enumeration»*

454 Kind of service.

Name	Type	Description
electricity		
gas		
water		
time		
heat		
refuse		
sewerage		
rates		
tvLicence		
internet		
other		

455 **REQ.18.4.1.28** **CustomerAuthorisation**

456 Holds an authorisation for access to specific user-private data granted to a 3rd Party
457 service provider. [OpenADE Extension - Specialization of "Agreement"]

Name	Type	Description
ID	*string*	Unique identifier for this authorisation
validityInterval	*DateTimeInterval*	Date and time interval this agreement is valid (from going into effect to termination).

458 **REQ.18.4.1.29** **ServiceCategory**

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459 Category of service provided to the customer.

Name	Type	Description
kind	*ServiceKind*	Kind of service.

460 **REQ.18.4.1.30** **SupplierKind** *«enumeration»*

461 Kind of supplier.

Name	Type	Description
utility		
retailer		
other		

462 **REQ.18.4.1.31** **ServiceSupplier**

463 Organisation that provides services to Customers.

Name	Type	Description
ID	*string*	Unique identifier of this service supplier.
issuerIdentificationNumber	*string*	Unique transaction reference prefix number issued to an entity by the International Standards Organisation for the purpose of tagging onto electronic financial transactions, as defined in ISO/IEC 7812-1 and ISO/IEC 7812-2.
kind	*SupplierKind*	Kind of supplier.
name	*string*	The human-readable name for the service supplier.

464

465 **REQ.18.4.2** **Energy Usage Information and Format and Use**

466 **REQ.18.4.2.1** The Energy Usage Information Model is developed using a UML modeling tool. The
467 Model classes, attributes, types and descriptions are included in REQ 18.4. The Model
468 is made available as XMI, which is the standard XML import/export format for UML.
469 The Model is exported as HTML, and made available as a downloadable archive
470 viewable with a web browser.

471 **REQ.18.4.3** **Energy Usage Information Model Technical Consideration**

472 *REQ.18.4.3.1* *The Energy Usage Information Model will used as the basis for Smart Grid interfaces*
473 *exchanging customer usage information between energy services providers.*

474 *REQ.18.4.3.2* *The Energy Usage Information Model will be configured to allow schemas to be*
475 *generated from it, using XML Schema Definition Language (XSD). This format defines*
476 *the valid structures and types for XML documents that may carry the model information.*

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REQ.18 4.3.3 *Implementations may decide to include only a subset of the elements defined in the model.*

REQ.18 4.3.4 *The example XSD shall conform to Naming and Design Rules best practices as described by IEC 62361-100, Naming and Design Rules for CIM Profiles to XML Schema Mapping.*

REQ.18.4.3.5 *The model and schema shall support multiple information exchange standards, including WS-I Basic Profile Web Services, RESTful Web Services, or other conventions. These specifics are left to implementers to define.*

REQ.18.4.3.6 *Though there may be elements useful for transfer of security-related information elements in the model, the specific details related to how to protect sensitive information, and how to authorize specific roles or identities to have access are not defined in this recommendation.*

REQ.18.4.3.7 *A conformant specification that refines or extends this standard shall produce information for exchange that can be transformed algorithmically (that is based on the standard alone) into a form that can be validated through the method described in REQ.18.4.3.7.*

This requirements means that various formats for representation and exchange and various subsets and potentially supersets of information content are envisioned based on this standard. The use of the schema is not to impose its direct use in message validation. Rather its use is intended to facilitate verification of conformance to the information model with respect to message content and semantics without imposing constraints on specific message payload schemas and data element representations. Some representations are anticipated to be entirely binary in nature. Others will trade off strings for integer representations of information contents. Regardless of the means, the information should be convertible to be testable as described herein.

REQ.18.4.3.8 *A specification that claims conformance to this standard shall describe and define an automatable transformation from that specification's model to and from this UML Model, including indicating listing of attributes used and not used.*

REQ.18.4.3.9 *Conformant specifications shall include the following required core model elements exchanged between data provider and data consumer in their defined messages:*

- *One or more measurement or summary containers: IntervalReading, Reading, PowerQualitySummary, UsageSummary*
- *Two of the following attributes, for each IntervalReading: timeStamp, endTimeStamp, duration*
- *value (the value of the measurement, from IntervalReading or Reading)*
- *ReadingType – ID, defaultQuality, direction, kind, multiplier, name, unit*
- *ReadingType ID for each measurement (IntervalReading or Reading) (exists in model through MeterReading)*
- *Measurement source / location – ServiceDeliveryPoint.ID or MeterAsset.ID and association to measurements or summary*

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APPENDIX A Principle Verifications Against The Energy Information Usage Model

REQ.18.4.4 Requirements validation method

A complete requirements process involves a sequential breakdown of a problem starting with the collection of high level functional user requirements. The high level requirements are broken down into ever more specific derived requirements. Eventually you get to design requirements. At the bottom of the requirements tree are simple, testable, atomic requirements. When the atomic requirements are met, the tracing to the higher level requirements allows them to be met by definition.

The PAP10 charter – the text of the abstract, description, and objectives from the NIST Framework – are high level user requirements {insert reference to NIST Framework Rev 1.0}. The requirements presented in REQ.18.6.1.1 can be considered the first level requirements breakdown of derived requirements.

This standard does not go to the final level of detailed design requirements. Instead, we performed a parallel assessment of the "derived requirements" against the evolving model, which itself was initially derived from detailed requirements identified in activities external to this standard.

Here is a sample requirement and how it is verified:

<<requirement reference>>	*Standard load and usage information shall enable improved energy efficiency by defining a consistent way to communicate usage information.*
	In the Model, There is at least one Schema, see {reference} produced as a part of this standard. With a schema at least one specific consistent way to communicate usage information is thereby specified. Thus, the presence of the agreed upon schema or equivalent satisfies this requirement.

REQ.18.4.4.1 General

REQ.18.4.4.1.1 *Facilities shall include residences, buildings, and industrial installations*

No specific limit as to the nature of the facility appears in the EUI model. Identifiers are for user, location, and device only.

REQ.18.4.4.1.2 *Usage and load information shall be readily available*

While the availability of information is the realm of the utility and its customer, this model facilitates availability by providing a single simple information model for client applications

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551	*REQ.18.4.4.1.3*	*PAP 10 is an information model concept which is transport agnostic.*
552		Because it is defined within a UML model as a series of classes and no services
553		are specifically defined in the standard for those classes, it is by this definition
554		transport agnostic.
555	**REQ.18.4.4.2**	**Timeliness of Delivery**
556	*REQ.18.4.4.2.1*	*Customers shall be able to use the information defined in these standards for real-time*
557		*feedback on present and projected performance*
558		There are no constraints on time stamps, latency or performance imposed by the
559		model, so it is possible to represent past, present, or future usage.
560	*REQ.18.4.4.2.2*	*Premises based systems (e.g. EMS/ESI) shall be able to use the information defined in*
561		*these standards for real-time feedback on present and projected performance*
562		There are no constraints on time stamps, latency or performance imposed by the
563		model, so it is possible to represent past, present, or future usage.
564	*REQ.18.4.4.2.3*	*Information exchanged shall be delivered in sufficient time to affect usage ["and this is*
565		*the definition of real-time and near real-time "]*
566		There are no constraints on time stamps, latency or performance imposed by the
567		model, so it is possible to represent past, present, or future usage.
568	*REQ.18.4.4.2.4*	*Operations, Distribution, and Service Providers shall be able to use the information*
569		*defined in these standards with the facility in near-real-time*
570		There are no constraints on time stamps, latency or performance imposed by the
571		model, so it is possible to represent past, present, or future usage.
572	*REQ.18.4.4.2.4.1*	*Customers and premises-based systems shall be able to use the information defined in*
573		*these standards to provide real-time feedback on present and projected performance*
574		There are no constraints on time stamps, latency or performance imposed by the
575		model, so it is possible to represent past, present, or future usage.
576	**REQ.18.4.4.3**	**Benefits to Facilities**
577	*REQ.18.4.4.3.1*	*Standard load and usage information shall enable improved energy efficiency by*
578		*defining a consistent way to communicate usage information.*
579		By minimizing the number of different physical representations of usage
580		information, and aligning the logical elements included in the definition of this
581		information, it will allow for the development of applications that require this
582		information to provide energy efficiency services and functionality.
583	*REQ.18.4.4.3.2*	*Standard load and usage information shall enable helping [all] Customers and*
584		*operations manage their energy usage [and load]*

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The data model standardizes load and usage information so customer usage data provider services may be developed to interface with systems that help customers and operations with energy management.

REQ.18.4.4.3.3 *Standard load and usage information shall enable improved [facility] energy usage by availability of fine grained and timely information*

The data model standard provides for measurement intervals enabling the availability of fine grained and timely load and usage information.

REQ.18.4.4.3.4 *Availability of fine grained and timely information will enable better decisions about energy usage and conservation*

The data model enables a standard approach for fine grained and timely load and usage information so customer usage data provider services can interface to systems that help customers and/or operations with energy conservation.

REQ.18.4.4.3.5 *Facilities will benefit from consistent usage information exchange inside the facility, including meeting the energy efficiency goals of EISA 2007 and DOE initiatives*

The data model provides consistent energy usage data representation so information exchanges are uniformly understood. This ensures facility energy efficiency systems using this data are acting on correct and consistent information.

REQ.18.4.4.3.6 *Standard model shall support aggregated projections that can be passed on to operations [the System Operator's] or [building management] [?] make forecasting and management better and increase the value of a facility to the Smart Grid*

Aggregated projections are supported via future timestamps in interval and other data.

REQ.18.4.4.3.7 *Sharing usage and load information inside a facility makes that facility more valuable to the Smart Grid*

The data model provides usage, load, and pricing information from which a facility manager or system may take optimization actions.

REQ.18.4.4.3.8 *The information exchanged shall allow integration of usage information throughout facility decision processes*

The data model standardizes usage information so customer usage data provider services may be developed to integrate with systems handling facility decision processes.

REQ.18.4.4.4 **RBenefits to Grid and Service Provider Operations**

REQ.18.4.4.4.1 *Standard load and usage information will improve forecasting and grid management by delivering aggregated projections to operations.*

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By specifying future intervals, which could be larger than measured intervals, it is possible to represent aggregated projections.

REQ.18.4.4.4.2 *Standard load and usage information will improve forecasting and grid management by delivering aggregated projections to service providers.*

By specifying future intervals, which could be larger than measured intervals, it is possible to represent aggregated projections.

REQ.18.4.4.4.3 *Standard load and usage information will enable more responsive facilities.*

Interoperable models of load and usage information allow coordination of response capability, allowing those capabilities to be utilized more efficiently.

REQ.18.4.4.4.4 *Standard load and usage information will enable early deployment of devices that deliver and understand usage information.*

By standardizing the information to be made available, devices and applications will be able to get access to that information.

REQ.18.4.4.5 **Internet-Like Future**

REQ.18.4.4.5.1 *Standard usage and load information enables innovation in novel ways to help customers manage energy usage.*

By standardizing on simple data sets that many providers and consumers can utilize, this information can be combined with additional information to find the specific way that will help customers the most.

REQ.18.4.4.5.2 *Standard usage and load information enables innovation by third party service and software providers.*

By standardizing on simple data sets that many providers and consumers can utilize, this information can be combined with additional information to find the specific way that will help customers the most.

REQ.18.4.4.6 **Improved Collaboration**

REQ.18.4.4.6.1 *The Information model shall not restrict two way flows of information.*

Customers, utilities and third parties will have access to the model in real time with the appropriate usage information and customer permissions/allowances.

REQ.18.4.4.6.2 *By standardizing usage and load information exchange, devices that deliver and understand usage and load can be deployed more quickly, contributing to achieving the energy efficiency goals of EISA 2007 and DOE.*

Uniformity among signals as required by the model standards will lead to greater acceptance and adoption.

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REQ.18.4.4.7 Information Sources and Accessibility

REQ.18.4.4.7.1 *Usage and load information shall be provided by utilities and aggregating service providers and may be provided by others.*

With consent from the customer, utilities and aggregators will provide access to usage and load information in the provided format for model integration.

REQ.18.4.4.7.2 *Usage and load information shall be provided by devices and EMS/ESI implementations.*

With consent from the customer, devices and EMS/ESI implementations will provide usage and load information in the provided format for model integration.

REQ.18.4.4.7.3 *Usage and load information can be accessed from the meter.*

With consent from the customer and the utility, usage and load information will be provided by the meter to accredited sources for purposes of running the model.

REQ.18.4.4.7.4 *Usage and load information can be accessed from the Smart Grid.*

With consent from the customer and the utility, usage and load information will be made available by any Smart Grid services provider via the public Internet.

REQ.18.4.4.8 Interactions and Information Exchanges Supported

REQ.18.4.4.8.1 *Interactions supported shall include those between Distribution [and Operations] and the industrial, commercial, and residential premises.*

The model does not exclude/include specific actors or potential exchange points, it merely describes data and format of information.

REQ.18.4.4.8.2 *Standard information models and understanding of usage and load are essential to cross domain interactions between Distribution [and Operations]: and Industrial, Commercial, Residential, and PEVs.*

The standard information format does not exclude potential actors or exchange points including potential cross domain interaction including those between Distribution companies and other actors.

REQ.18.4.4.8.3 *Interactions supported shall include those between Distribution [and Operations] and the industrial, commercial, residential premises, and plug-in electric vehicles.*

The model does not exclude/include specific actors or potential exchange points, it merely describes data and format of information.

REQ.18.4.4.8.4 *Standard information models and understanding of usage and load are essential to cross domain interactions between Service Providers: and Industrial, Commercial, Residential, and PEVs.*

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The standard information format does not exclude potential actors or exchange points including potential cross domain interaction including those between Service Providers and other actors.

REQ.18.4.4.8.5 *Interactions supported shall include those between Service Providers and the industrial, commercial, residential premises, and plug-in electric vehicles.*

The model does not exclude/include specific actors or potential exchange points, it merely describes data and format of information therefore by not excluding these actors.

REQ.18.4.4.8.6 *This effort shall support information standards for load curtailment, load shaping, and energy market operations, hence load and usage must be supported (see PAP09, PAP03, and PAP04).*

Load and usage information are part of the model.

REQ.18.4.4.8.7 *Information exchanges shall include to, from, and within facilities.*

The model does not preclude any potential exchange points therefore the requirement is met.

REQ.18.4.4.9 **Information Characteristics**

REQ.18.4.4.9.1 *Information model shall support exchange of both Fine Grained and summary information.*

Summary information is available at the top level through PowerQualitySummary and UsageSummary components. Fine-grained information is available through the list of MeterReading measurement structures which in turn have both summary, Reading, and interval level detail, IntervalReading components. Additionally, the EUI data structures can be associated by device, location, and owner facilitating variable aggregations.

REQ.18.4.4.9.2 *Fine grained means that there is disaggregated information. Disaggregated information can include for example load, subsystem, premise, and variable time interval.*

Fine grained (disaggregated) information is described throughout the information model. From CustomerAccount, EventType, MeterAsset, ReadingKind, etc. there seems to be enough detailed data elements to support "Fine grained" information.

REQ.18.4.4.9.3 *Support for exchanging standard historical, present, and projected load information is required.*

Historical information seems to be supported by the UsageSummary attributes for billing items only. Present (meter reading) information has fine grained as well as billing attributes defined. Projected usage is supported in the

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722 QualityOfReading <<enumeration>> attribute, which delineates the "estimated"
723 and "forecast" attribute names.

724 *REQ.18.4.4.9.4* *Energy Usage Information shall include usage, usage profile, and some component of*
725 *cost (consistent with PAP03, PAP04)*

726 Energy usage information, including costs is contained in the data model.
727 Interval data is supportive of usage profiles and PAP04.

728 *REQ.18.4.4.9.5* *The PAP 10 Energy Usage Information model shall allow for exchange of greater or*
729 *lesser detail.*

730 Summary information is available at the top level through
731 PowerQualitySummary and UsageSummary components. Fine-grained
732 information is available through the list of MeterReading measurement
733 structures which in turn have both summary, Reading, and interval level detail,
734 IntervalReading components. Additionally, the EUI data structures can be
735 associated by device, location, and owner facilitating variable aggregations.

736 **REQ.18.4.4.10** **Timing and Goals**

737 *REQ.18.4.4.10.1* *Initial steps include making usage information more readily available by defining and*
738 *standardizing usage information [delivered] through existing SG infrastructure.*

739 The EUI data structures enable a diverse range of technologies to deliver usage
740 information in a timely and protocol agnostic manner. Examples of this might
741 be a premise ESI or through services provided by a utility or facility.

742 *REQ.18.4.4.10.2* *Information on device and facility usage is a primary goal in the initial focus.*

743 As the EUI data structures cover summary and device level information, device
744 and facility (aggregated) information can be delivered.

745 *REQ.18.4.4.10.3* *Standard load and usage information will enable early deployment of devices that*
746 *deliver and understand usage information.*

747 As the EUI data models are standardized, producers may deliver usage based
748 devices with confidence in interoperability.

749 **REQ.18.4.4.11** **Requirements on Quality of Consensus Standard**

750 *The information model shall support:*

751 *REQ.18.4.4.11.1* *Consistent data representation for REST & Web Services.*

752 The Schema in section REQ.18.4.3 ensures that a consistent data representation
753 can be achieved when a Schema is developed in a supporting standard carrying
754 EUI in REST and Web Services.

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755 756	*REQ.18.4.4.11.2*	*Specification of transactional exchange, syntax, and required population of the information model are beyond the scope of these requirements.*
757		No transactional syntaxes or message services are defined in this standard.
758	*REQ.18.4.4.11.3*	*an extensible information model – e.g. ability to add custom extensions as needed*
759 760 761 762		This model may be extended by adding new elements (classes, attributes, and associations). Implementations must utilize conventions to ignore any elements not understood by components, to allow them to continue to operate when future extensions are added.
763 764	*REQ.18.4.4.11.4*	*have an evolvable information model – e.g. the standards process supports future revisions*
765 766		**Error! Reference source not found.** identifies how the model is evolvable. Section 0 defines how the standard version can be revised.
767	*REQ.18.4.4.11.5*	*Forward compatible as we evolve*
768 769 770 771		To maintain forward and backward compatibility, no model elements may be removed or restricted in future versions. Only additions and expansions are allowed, so that previous version representations maintain validity against future versions, and vice-versa.
772	*REQ.18.4.4.11.6*	*Supportive of versioning*
773 774 775		Versioning in the UML Model is addressed by a tagged value. The tagged value "version" is used additionally in the XML Schema export (see REQ.18.4.3) as the schema version value.
776	*REQ.18.4.4.11.7*	*Usable without "knowing all the details"*
777 778 779 780 781		Information in the model is arranged hierarchically. Greater detail can be understood the deeper into this hierarchy the reader goes. Summary information is exposed near the top of the hierarchy. These arrangements make it straightforward to accessing applications to ignore the level of detail they do not plan to use or comprehend, while getting value out of higher level information.
782		*More flexibility for independent innovation shall be achieved through:*
783	*REQ.18.4.4.11.8*	*Focus on information exchanged*
784 785		The specification of an information-only model allows the standard to focus on the information exchanged.
786	*REQ.18.4.4.11.9*	*Agreed upon interfaces are maintained over time*
787		See section 0 which describes

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788 *REQ.18.4.4.11.10* *Minimal details = maximum interoperation*

789 The model provides a hierarchy of summary and detailed information. A
790 balance is achieved by the definition of minimal set of details necessary to
791 satisfy the cumulative set of use cases of the EUI and allocated to this model.

792 *REQ.18.4.4.11.11* *Intellectual Property Rights shall be clear & clean*

793 [Need section on IPR and access to model and schema]

794 *Results of PAP 10 shall produce:*

795 *REQ.18.4.4.11.12* *Information model and XML schema*

796 See sections REQ.18.4.2 and REQ.18.4.3 which describe the delivery of an
797 information model and XML schema respectively.

798 *REQ.18.4.4.11.13* *At information exchange level*

799 The information model is designed to be exchanged between participants. The
800 information model and XML Schema provide the specificity to define an
801 information exchange, but stops short of mandating one (see 0).

802 *The information model shall be:*

803 *REQ.18.4.4.11.14* *Readable without charge*

804 NAESB has agreed to make the Energy Usage Information Model included in
805 REQ.18.4 and REQ.18.4.1 available to the public without charge.

806 *REQ.18.4.4.11.15* *Reusable without restriction or charge*

807 The use of the Energy Usage Information Model included in REQ.18.4 and
808 REQ.18.4.1 for the production of derivative work products is not prohibited.

809 *REQ.18.4.4.11.16* *Adaptable without restriction or charge*

810 All NAESB standards maybe modified through the NAESB process. . (Please
811 see: http://www.naesb.org//misc/naesb_process_for_standards_dev.doc)

812 *REQ.18.4.4.11.17* *REQ.18.1.2.13.17* *Usable for open source*

813 The use of the Energy Usage Information Model included in REQ.18.4 and
814 REQ.18.4.1.maybe distributed in any manner, however, must be made available
815 without charge.

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REQ.18.4.4.12 Additional Considerations

REQ.18.4.4.12.1 *In communicating energy usage information, the Energy Usage Information Model should be used and the information outlined within the model should be available.*

The model provides a common, consensus-based, vendor-neutral model to represent usage information, to be used in exchange scenarios where it is applicable and desired by usage information providers and Customers.

REQ.18.4.4.12.2 *The Energy Usage Information Model data set has three unique identifiers, which serve the purpose of allowing various aggregations of data sets.*

Owner (customer): This is represented by the Customer class, provided the use of the term "owner" or similar verbiage is not indicative or dispositive of any ownership or other rights under applicable law in the Model or any data.

Location: This is represented by ServiceDeliveryPoint.

Device: This is represented by MeterAsset.

REQ.18.4.4.12.3 *The Tariff Profile component should be included in the Energy Information Usage Model.*

Recommend marking as a "Future" – TariffProfile provides the representation of the rate elements, and would expand the scope beyond our initial target schedule.

REQ.18.4.4.12.4 *UsageSummary should include an optional cost attribute to interval and reading class.*

Recommend marking as "Future".

REQ.18.4.4.12.5 *REQ.18.1.2.14.5 A known base currency should be included in the top level class associated with the MeterAsset for the Energy Usage Information Model, which would be applicable to all instances*

Recommend marking as "Future" – If performance considerations require optimization, global defaults for this and other repetitious elements should be considered.

REQ.18.4.4.12.6 *The Energy Usage Information Model should be compliant with ISO8601.*

The current model does not define the primitive to be used to represent the dateTime, however the default xs:dateTime is ISO8601 compliant.

REQ.18.4.4.12.7 *Optionally, both start and end of interval can be defined in order to support non-uniform interval information, which is accomplished in the Energy Information Usage Model through endTimestamp to IntervalReading.*

The endTimeStamp element is included as an optional component of IntervalReading.

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850	*REQ.18.4.4.12.8*	*Demand based elements are maintained in the TariffProfile including common demand*
851		*and demand ratchets.*
852		The model does not currently contain the full definition of TariffProfile, but this
853		is the CIM element where thresholds associated with the rate are specified.
854	*REQ.18.4.4.12.9*	*The Energy Information Usage Model status structure includes a named pair of*
855		*QualityOfReading and values of raw, forecast, validated, estimated, mixed, and other for*
856		*qualifying the associated data set, as an explicit representation of these name value pairs*
857		*can be processed in implementations by sending and receiving actors. The*
858		*UsageSummary class also includes such summary information.*
859		Model is specified as described.
860	*REQ.18.4.4.12.10*	*MeterEvent should be associated with meterAsset, not MeterReading.*
861		The events are currently associated to the MeterAsset through MeterReading,
862		but could be represented in other ways if the group decides this should be
863		changed.
864	*REQ.18.4.4.12.11*	*PQSummary as events of enumerated type are provided in the Energy Information Usage*
865		*Model to represent a simple exposure of summary information.*
866		The model exposes these events in summary form as described.
867	*REQ.18.4.4.12.12*	*The Energy Usage Information Model should represent and take into account pollutant*
868		*energy emissions such as O2, SO2, and NOX.*
869		Detailed information about these emissions is possible through definition of a
870		ReadingType specifying the appropriate kindReading values as enumerated in
871		ReadingKind.
872	*REQ.18.4.4.12.13*	*Energy Usage Information Model should include a top level cost summary – billStart,*
873		*billEnd, billToDate, lastPeriod, and costAdditional, so that the bill to date and bill as of*
874		*the last billing period could be conveyed through a formula:*
875		billLastPeriod = costAdditionalLastPeriod + ∑MeterReading[i].Reading.cost
876		(constrained by datetime)
877		The model represents these elements in the UsageSummary class.
878	*REQ.18.4.4.12.14*	*The model shall use the work being produced by OASIS on common schedule*
879		*information pursuant to the SGIP PAP04 Requirements. As this work is not complete as*
880		*of this draft, the abstract definition of time intervals is the most appropriate way to*
881		*ensure consistency.*
882		TBD – Group to discuss alignment with PAP04
883	*REQ.18.4.4.12.15*	*The model shall use the work being produced by OASIS on common price and product*
884		*definition information pursuant to the SGIP PAP03 Requirements. As this work is not*

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complete as of this draft, should information related to price be included in the Seed Specification it must be at an appropriate level of abstraction.

TBD – Group to discuss alignment with PAP03

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888 **4. SUPPORTING DOCUMENTATION**

889 a. Description of Request:

890

891 b. Description of Recommendation:

892

893 c. Business Purpose:

894

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

896 NAESB Process for Standards Development -
897 http://www.naesb.org//misc/naesb_process_for_standards_dev.doc

898

Core Model for Energy Usage Information

Note of 9 August 2010 (Minor revisions to model from 8 August)

William Cox

This note explains a simplified core model for energy usage information.

By simplifying the pattern and repetition scope, it gives a common way to describe all Historical, Present, and Future interval usage and load information, while using many of the common classes from the Straw Model.

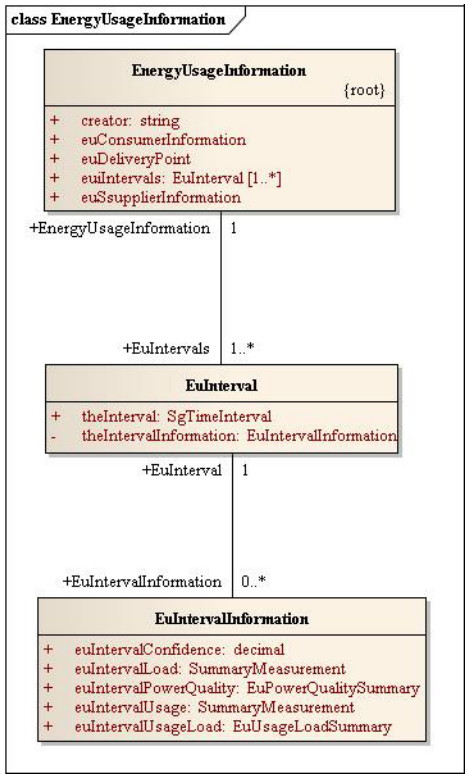
Overview

The model (excluding classes used as types, only including those in the core) addresses issues discussed in the PAP10 Subcommittee calls, including

- Adaptable to other standards and specifications
- Sufficiently abstract to support both NAESB Retail and Electric Quadrants
- More clearly applicable to NAESB Gas quadrants
- Uses PAP04 interval semantics
- Can be easily mapped to the Straw Model and others

First, we show the Core Model without definitions of all classes used, only the primary ones

:



The recurring pattern for usage information is to define the consumer and supplier information, the delivery point, and a set of intervals. The intervals match the PAP04 work (and the class uses Pap04Interval) and define an interval with additional information.

This reuses several classes from the Straw Model, and modifies several—in particular, UsageLoadSummary and PowerQualitySummary (the modified classes are EuUsageLoadSummary and EuPowerQualitySummary) because the repetition approach didn't fit with interval+data.

In terms of conformance to the Core Model, the text in the current draft says "A specification that claims conformance to this standard shall describe and define an automatable transformation from that specification's model to and from this UML Model, including indicating listing of attributes used and not used."

I believe that the Straw Model conforms to the Core Model using a straightforward mapping.

Improvements From the Core Model

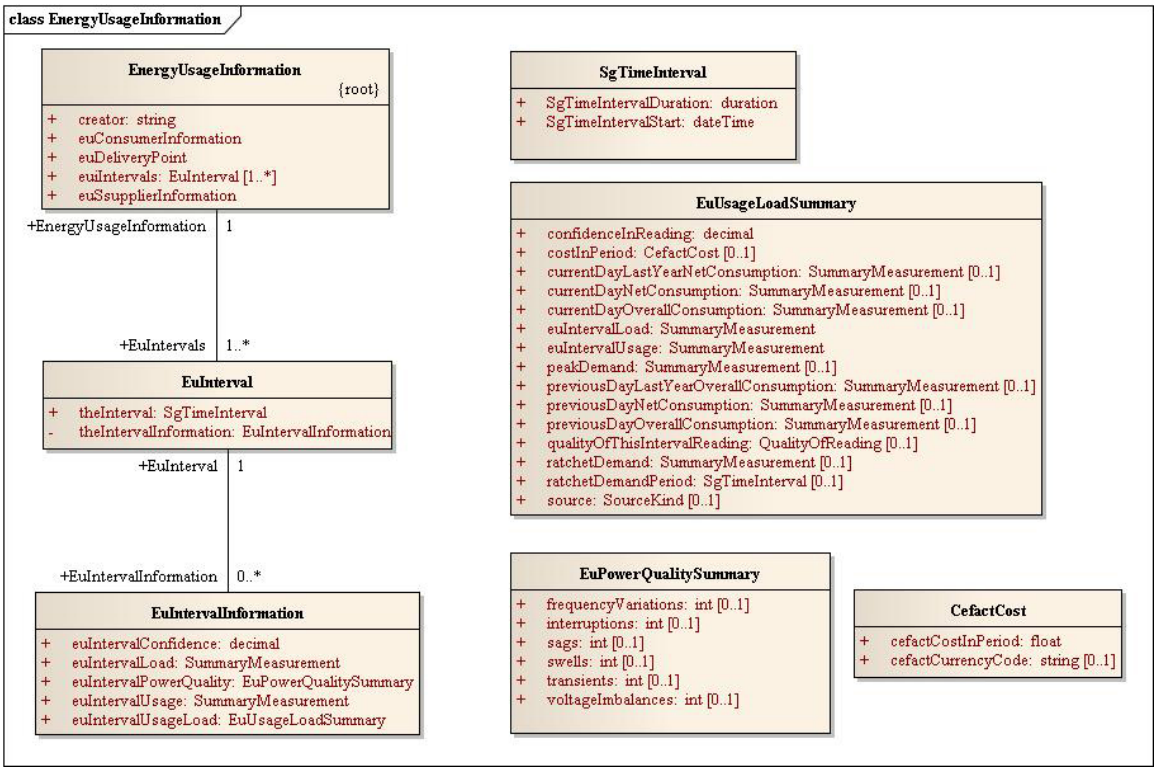
The issues raised with the WEQ are largely related to detail that is included; much of that detail is not in the Core Model. For example, the Core Model is suitable to a tariff based and to a market-based environment; as markets permeate the energy world, this will be very important.

I invite the WEQ participants to review the Core Model with their needs in mind. Some of the referenced classes are unchanged; those will be included directly in a future version of the class diagram.

The abstractions are consistent, and the center is the EnergyUsageInformation class (which can be repeated in say OpenADE), rather than both CustomerAgreement and MeterAsset. This reduces the complexity of the class structure significantly.

Model with Modified Classes

Here's the model with the modified classes added:



There are some issues to discuss on some of the attributes of the modified classes and the use of the Straw Model classes; I've fixed (e.g.) currency codes to be a full reference rather than a partial enumeration, and stripped any interval other than the current one from PowerQualitySummary. EuUsageLoadSummary is renamed from UsageSummary; the removed attributes related to previous bills can be included in a conformant specification.

The name prefix "Eu" should probably be "Eui" to avoid confusion with the European Union.

Next Steps

First, comments are welcome— wtcox@CoxSofttwareArchitects.com --on this note and the Enterprise Architect model I'm distributing with it.

Second, I suggest that we consider this as the model for the public review, either as a replacement or an alternate. We've not yet discussed the model in detail.

Finally, I request that all of the NAESB PAP10 participants examine this Core Model in the context of what we need to standardize to achieve the goals of the grid-side usage information model, and focus on gaps and inconsistencies.

R10008

North American Energy Standards Board

Request for Initiation of a NAESB Business Practice Standard, Model Business Practice or Electronic Transaction
or
Enhancement of an Existing NAESB Business Practice Standard, Model Business Practice or Electronic Transaction

Instructions:

1. **Please fill out as much of the requested information as possible. It is mandatory to provide a contact name, phone number and fax number to which questions can be directed. If you have an electronic mailing address, please make that available as well.**

2. **Attach any information you believe is related to the request. The more complete your request is, the less time is required to review it.**

3. **Once completed, send your request to:**

   Rae McQuade
   NAESB, President
   1301 Fannin, Suite 2350
   Houston, TX 77002

   Phone: 713-356-0060
   Fax: 713-356-0067

   by either mail, fax, or to NAESB's email address, naesb@naesb.org.

Once received, the request will be routed to the appropriate subcommittees for review.

Please note that submitters should provide the requests to the NAESB office in sufficient time so that the NAESB Triage Subcommittee may fully consider the request prior to taking action on it. It is preferable that the request be submitted a minimum of 3 business days prior to the Triage Subcommittee meetings. Those meeting schedules are posted on the NAESB web site at http://www.naesb.org/monthly_calendar.asp.

R10008

North American Energy Standards Board

Request for Initiation of a NAESB Business Practice Standard, Model Business Practice or Electronic Transaction
or
Enhancement of an Existing NAESB Business Practice Standard, Model Business Practice or Electronic Transaction

Date of Request: July 29, 2010

1. Submitting Entity & Address:

OpenADE Task Force
c/o UCA International Users Group
10604 Candler Falls Court
Raleigh, NC 27614

2. Contact Person, Phone #, Fax #, Electronic Mailing Address:

Name	:	David Mollerstuen
Title	:	Chair, OpenADE Task Force
Phone	:	720-560-8223
Fax	:	303-926-1398
E-mail	:	dmollerstuen@tendrilinc.com

3. Title and Description of Proposed Standard or Enhancement:

Title:

Syntax and Transport of Energy Usage Information

Description:

Standardization of the exchange of Energy Usage Information, as per the requirements outlined in the requirements collected in OpenADE 1.0 Requirements documents. This standard will facilitate the transfer of Energy Usage Information between designated parties, and will build on the "seed standard" of Energy Usage Information data model being developed by NAESB.

4. Use of Proposed Standard or Enhancement (include how the standard will be used, documentation on the description of the proposed standard, any existing documentation of the proposed standard, and required communication protocols):

The Standard may have many uses, but we anticipate that it will be initially used primarily between a Consumer's utility provider and a third party that the consumer nominates to display that energy usage information.

The OpenADE Task Force within the UCAIug's OpenSG has done extensive requirements analysis and initial service definition work in this domain, and intends to contribute their collected work to this standardization effort within NAESB.

5. Description of Any Tangible or Intangible Benefits to the Use of the Proposed Standard or Enhancement:

There are numerous existing proprietary implementations in use today between individual providers and consumers of Energy Usage Information; standardizing this interface will reduce costs, improve functionality and security, and enhance accessibility of this Energy Usage Information for the average Consumer.

6. Estimate of Incremental Specific Costs to Implement Proposed Standard or Enhancement:

Minimal cost to complete standard definition; initial implementation cost will be comparable to implementation of existing proprietary interfaces, but need only be completed once by each Provider and Consumer of Energy Usage Information.

7. Description of Any Specific Legal or Other Considerations:

N/A.

8. If This Proposed Standard or Enhancement Is Not Tested Yet, List Trading Partners Willing to Test Standard or Enhancement (Corporations and contacts):

Tendril Networks / David Mollerstuen
Southern California Edison / Steven Van Ausdall

9. If This Proposed Standard or Enhancement Is In Use, Who are the Trading Partners :

N/A.

10. Attachments (such as : further detailed proposals, transaction data descriptions, information flows, implementation guides, business process descriptions, examples of ASC ANSI X12 mapped transactions):

OpenADE Business and User Requirements v100
OpenSG OpenADE 1.0 SRS 20100209
OpenSG OpenADE SD - Common v0.96
OpenSG OpenADE SD - REST v0.92
OpenSG OpenADE SD - WS v0.8

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

July 31, 2010
Via email and posting

TO:	**NAESB Executive Committee (EC) Members, posting for interested parties**
FROM:	NAESB Office
cc:	EC Alternates, Submitters, Subcommittee Chairs of Subcommittees noted in text below
RE:	NAESB Triage Actions Taken for R10003 and R10004

Dear Triage Subcommittee and EC members,

Tow requests were sent out for review and determination of disposition on April 30, 2010, all provided below as hyperlinks. There were no requests for conference cal for discussion, and there were no comments received. The requests were triaged as follows:

For R10003, submitted by Dale Davis and Christopher Burden on behalf of Williams Gas Pipeline:

> This request is (1) found within scope; (2) to be assigned to the Wholesale Gas Quadrant (WGQ); and (3) because it is a request for the addition of two new data elements "Discount Begin Date" and "Discount End Date" in the Transactional Reporting – Capacity Release Data Set (NAESB WGQ Standard No. 5.4.20) and Transactional Reporting – Firm Transportation Data Set (NAESB WGQ Standard No. 5.4.21) with a proposed usage of SO – Sender's Option, the request should be assigned to the WGQ Business Practices Subcommittee (BPS). There was nothing in the request indicating that it should be assigned a high priority, therefore, it should be addressed in the normal course of business of the WGQ BPS.

For R10004, submitted by Mike Schisler on behalf of Natural Gas Pipeline of America:

> This request is (1) found within scope; (2) to be assigned to the Wholesale Gas Quadrant (WGQ); and (3) because it is a request for the modification of usage of Beginning Time (or equivalent element for the specific document provided in the request) and Ending Time (or equivalent element for the specific document provided in the request) from Mandatory to Senders Option in the Request for Confirmation, Confirmation Response, Scheduled Quantity and Scheduled Quantity for Operator, Allocation, Shipper Imbalance, Measurement Information, Measured Volume Audit Statement, and Transportation / Sales Invoice documents., the request should be assigned to the WGQ Business Practices Subcommittee (BPS). While there was nothing in the request indicating that it should be assigned a high priority, leadership has asked that it be processed as high priority to ensure that it is included in the upcoming WGQ Version 2.0 publication. As such, the request should be processed with a high priority.

If you have any questions on a specific request, please contact the requestor directly -- their email addresses are provided above. The noted dispositions for the requests and the requests themselves were forwarded to the Triage Subcommittee and the EC members on April 28. There were no dissenting comments received. As such, the requests are considered in scope and assigned to the indicated subcommittees for development. Please note that this communication serves as notice to the subcommittee chairs of the subcommittees to which the requests are assigned.

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

August 2, 2010
Via email and posting

TO:	**NAESB Executive Committee (EC) Members, posting for interested parties**
FROM:	NAESB Office
cc:	EC Alternates, Submitters, Subcommittee Chairs of Subcommittees noted in text below
RE:	NAESB Triage Actions Pending for R10005 R10007, R10008

Dear Triage Subcommittee and EC members,

We have three requests[1] to triage – R10005, R10007, R10008 -- provided below as hyperlinks. The NAESB office recommends the following actions:

For R10005, submitted by Paul Love on behalf of Natural Gas Pipeline Company of America:

> This request is (1) found within scope; (2) to be assigned to the Wholesale Gas Quadrant (WGQ); and (3) because it is a request for the modification of Standard No. 5.3.26 to eliminate possible disputes over consequences associated with Bid Basis not selected by the Releasing Shipper, the request should be assigned to the WGQ Business Practices Subcommittee (BPS). There was nothing in the request indicating that it should be assigned a high priority, therefore, it should be addressed in the normal course of business of the WGQ BPS.

For R10007, submitted by Mike Stender on behalf of Tennessee Gas Pipeline:

> This request is (1) found within scope; (2) to be assigned to the Wholesale Gas Quadrant (WGQ); and (3) because it is a request to describe the existing ability to specify multiple indexed rates for an offer, bid and award in the Technical Implementation of Business Process and in P01 loop specifications, the request should be jointly assigned to the WGQ Information Requirements and Technical Subcommittees (IR/Tech). There was nothing in the request indicating that it should be assigned a high priority, therefore, it should be addressed in the normal course of business of the WGQ IR/Tech.

For R10008, submitted by David Mollersteun of Tendril Networks on behalf of the OpenADE Task Force:

> This request is (1) found within scope; (2) to be assigned to the Wholesale Electric and Retail Electric Quadrants (WEQ, REQ); and (3) because it is a request to reflect the OpenADE specifications as NAESB standards extending the work efforts underway for business practices for PAP 10, the request should be processed by the NAESB WEQ/REQ Smart Grid Subcommittee for PAP 10. . There was nothing in the request indicating that it should be assigned a high priority, therefore, it should be addressed in the normal course of business of the WEQ/REQ Smart Grid Subcommittee for PAP 10.

If you have any questions on a specific request, please contact the requestor directly -- their email addresses are provided as links with the requests. If you have any concerns on the above actions, please respond via email with your concern stated, and we will convene a conference call for its resolution. Comments may certainly be provided and will be posted on the Triage Subcommittee page of the NAESB web site. If no concerns are raised, then on August 16, the dispositions as noted above will be considered approved.

[1] Request No. R10006 was determined to be processed as a minor correction as it addresses the addition of a Reduction Reason code value to NAESB WGQ Standard No. 1.4.6. It has been assigned number MC10024 and to be addressed jointly by the WGQ Information Requirements/Technical Subcommittees.

Business Practices Subcommittee Update

August 17, 2010

WEQ BPS Update - Meetings

- Full subcommittee
  - June 24-25, 2010
  - June 28, 2010
  - July 15-16, 2010
  - July 23, 2010
  - August 6, 2010
- Tagging Option Work Group
  - May 21, 2010
  - May 24-25, 2010
  - June 11, 2010
- Generator Prioritization Option Work Group
  - May 13, 2010
  - May 24-25, 2010
  - June 14, 2010
  - June 17, 2010
- Flowgate Allocation Option Work Group
  - May 10-11, 2010
  - May 24, 2010
  - June 14, 2010
  - June 17, 2010

Parallel Flow Visualization

- WEQ AP Item 1.a "Parallel Flow Visualization/Mitigation for Reliability Coordinators in the Eastern Interconnection" was split into two annual plan items:
  - 1.a.i Interim solution for Parallel Flow Visualization
  - 1.a.ii Permanent solution for Parallel Flow Visualization
- Interim solution was developed to support November 1, 2010, NERC implementation of IDC Change Order 283 into the IDC staging environment
- Interim solution recommendation was posted for 30-day formal comment period on July 29, 2010
- Supplemental "Interim Solution Work Paper" was approved by the WEQ BPS on August 6, 2010

Parallel Flow Visualization – Interim Solution

- The BPS submitted the recommendation with the understanding that the standards will be held in abeyance and not filed with the Commission
- It is not expected that the interim solution changes to the NAESB Business Practices by themselves will require changes to how current FERC-approved OATTs are administered
- The assignment of firm and non-firm transmission service priorities for generators within a BA shall follow that Transmission Service Provider's transmission tariff under which that generator operates
- The BPS expects to complete its work on the permanent solution prior to November 1, 2011
- The permanent solution for Parallel Flow Visualization will be filed with FERC and will replace these interim solution Business Practice Standards

Parallel Flow Visualization – Interim Solution

- Requirements have a sunset date of November 1, 2011 (provides time to develop the long-term solution)
- Assignment of transmission service priorities can be done via a generator priority assignment or a market flow assignment
  - Generator priority assignment
    - The BA shall identify the transmission service priority for all generators located in their BA and modeled in the IDC
    - Firm and non-firm transmission service priorities associated with generators shall be submitted via the SDX and/or Intra-BA Transactions
    - The default IDC treatment of generator transmission service priority level is firm
  - Market flow priority assignment
    - For those entities that have a regulatory-approved market-based congestion management process using flowgate allocations to assign firm and non-firm market flow priorities (which are comparable to the generator assignment priorities for those entities not using flowgate allocations) a default of firm will be used by the IDC

WEQ EC Materials Assembled for 8-17-10
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Parallel Flow Visualization – Interim Solution

- Generator Priority Assignment
  - Submittal via the SDX
    - The transmission priority for the generator will be submitted as either a percentage or MW value according to the timing requirements of the SDX data updates
  - Submittal via Intra BA Transactions
    - BAs may use Intra-BA Transactions to represent non-firm PTP and network service
    - A generator MW output provided via the SDX will be subtracted by the scheduled MW of the tags mapped to the generator, whether these are Intra-BA Transactions or e-Tags
    - Intra-BA Transactions will follow the same update requirements as NERC Interchange Transactions

Parallel Flow Visualization – Permanent Solution

- Three options being considered:
  - Tagging All Non-firm Service
  - Generator Prioritization
  - Flowgate Allocation
- Eliminated the option for tagging all firm and non-firm service
- Meeting September15-16, 2010, to review comments and provide input to the Executive Committee on the interim solution and then return focus to the permanent solution

Joint NERC TLR SDT/ NAESB BPS Update

- Initial ballot for TLR standards IRO-006.5 and IRO-006-EAST.1 ended July 6, 2010
- Voting Statistics
  - Quorum: 87.04 %
  - Approval: 84.98 %
- Because at least one negative vote included a comment the standards will go out for a recirculation ballot
- The Joint NERC TLR SDT/NAESB BPS had a conference call on July 8, 2010, to review comments and draft responses
- The team is proposing minor changes to the standards that will be included in the recirculation ballot

Joint NERC BACSDT / NAESB TIMTF Update

- Balancing Authority Controls Standards Drafting Team meetings:
  - May 19, 2010
  - June 22-23, 2010
  - July 12-13, 2010
- July 28, 2010, the NERC Balancing Authority Controls (Project 2007-05) was merged with the NERC Reliability Based Controls (Project 2007-18). The new project is Balancing Authority Reliability-based Control (Project 2010-14)
- Still foresee some coordination required with NERC Standards Draft Team and TIMTF
- TIMTF chair will monitor activity of Balancing Authority Reliability-based Control Project to determine when the TIMTF should schedule its next meeting
- NERC is considering a Time Error Correction Field Test which may have an impact on the NAESB Business Practices

Questions/Feedback

Standards Review Subcommittee Update

August 17, 2010

Meetings

- Recent Meetings:
  - May 18, 2010
  - July 13, 2010
  - August 10, 2010
- Upcoming Meetings
  - August 25, 2010
  - September 21, 2010
  - October 19, 2010
  - November 16, 2010

Recent Activities

- Ongoing Activities
  - Monthly Review of NERC Activities
    - Requested JESS review NERC activity with regards to EOP-002-3 Requirement 6 (NAESB WEQ Annual Plan 3.a.vi)
  - Review of recommendations posted for formal comments
    - Parallel Flow Visualization Interim Solution
- Specific Activities
  - Started Review of Annual Plan Item 1.d "Monitor and develop NAESB business practices as needed to complement NERC reliability standards for FAC-012 and FAC-013."
  - Compare NERC glossary dated April 20, 2010 Glossary and NAESB glossary ratified March 24, 2010
  - Revised Scope of Work
  - Implemented tracking process to monitor SRS review of recommendations, minor corrections, and standards request

Annual Plan Item 1.d

- Annual Plan Item 1.d "Monitor and develop NAESB business practices as needed to complement NERC reliability standards for FAC-012 and FAC-013."
  - The subcommittee reviewed a draft of FAC 013-2 which was posted for comments from 3/15/2010 to 4/29/2010.
  - The subcommittee agreed that, as written, the standard does not have any impact on NAESB Business Practice Standards.
  - The NERC Standards Drafting team has modified this standard based on comments received, but their new draft has not yet been posted for comments.
  - The subcommittee will continue to monitor this standard for any impact on NAESB Business Practice Standards.

NERC/NAESB Glossary

- The subcommittee reviewed the NERC and NAESB glossaries and identified inconsistencies.
- NAESB made conscious decisions to have differences in definitions from NERC.
- Next steps (what needs to be communicated)
  - NERC
  - FERC

NERC/NAESB Glossary

- Business Practice
  - NAESB Definition - Refers collectively to any practices adopted by the Transmission Provider as defined in their OATT, or Transmission Provider specific practices or requirements.
  - NERC Definition - Those business rules contained in the Transmission Service Provider's applicable tariff, rules, or procedures; associated Regional Reliability Organization or regional entity business practices; or NAESB Business Practices.
  - Status - NAESB made a distinction between an entity's business practices and NAESB Business Practice Standards. NERC has included NAESB Business Practice Standards as a subset of Business Practices.

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NERC/NAESB Glossary

- Native Load
  - NAESB Definition - The demand imposed on an electric utility or an entity by the requirements of all customers located within a franchised service territory that the electric utility or entity has statutory or contractual obligation to serve.
  - NERC Definition - The end-use customers that the Load-Serving Entity is obligated to serve.
  - Status – Definition was found in WEQ-008 TLR Business Practice Standards. Definition was reviewed at Joint BPS NERC TLR Standards Drafting Team meeting on June 26-27, 2008, agreed that NAESB would not change its definition.

NERC/NAESB Glossary

- Postback
  - NAESB Definition - A variable component of the Transmission Provider's selected ATC or AFC calculation methodology that positively impacts ATC or AFC based on a change in status of a Transmission Service reservation or use of reserved capacity, or other conditions as specified by the Transmission Provider.
  - NERC Definition - Positive adjustments to ATC or AFC as defined in Business Practices. Such Business Practices may include processing of redirects and unscheduled service.
  - Status – NAESB definition was shared with NERC during May 29, 2008 conference call. (No minutes available to indicate that NERC was in agreement or had no concerns with the definition.)

NERC/NAESB Glossary

- Reallocation
  - NAESB Definition - The process used to totally or partially curtail Transactions during TLR levels 3a, 3b or 5a events to allow Transactions using equal or higher priority to be implemented.
  - NERC Definition - The total or partial curtailment of Transactions during TLR Level 3a or 5a to allow Transactions using higher priority to be implemented.
  - Status – Understanding that NERC is working towards deleting its definition of Reallocation via Project 2006-08 — Transmission Loading Relief .

NERC/NAESB Glossary

- Request for Interchange
  - NAESB Definition - A collection of required data, as defined in Business Practice Standards WEQ-004-C, necessary for the purpose of submitting to the IA as an Arranged Interchange.
  - NERC Definition - A collection of data as defined in the NAESB RFI Datasheet, to be submitted to the Interchange Authority for the purpose of implementing bilateral Interchange between a Source and Sink Balancing Authority.
  - Status – Kept original NAESB definition. NAESB RFI Datasheet is an undefined term in NAESB or NERC Standards.

NERC/NAESB Glossary

- Bulk Electric System
  - NAESB Definition - The electrical generation resources, transmission lines, interconnections with neighboring systems, and associated equipment, generally operated at voltages of 100 kV or higher. Radial transmission facilities serving only load with one transmission source are generally not included in this definition.
  - NERC Definition - As defined by the Regional Reliability Organization, the electrical generation resources, transmission lines, interconnections with neighboring systems, and associated equipment, generally operated at voltages of 100 kV or higher. Radial transmission facilities serving only load with one transmission source are generally not included in this definition.
  - Status – NAESB made a decision not to include "As defined by the Regional Reliability Organization." RRO is not included in the NERC Functional Model.

Scope of Work

- Subcommittee made minor corrections to its scope of work on May 13, 2010

http://www.naesb.org/pdf3/weq_srs_scope_of_work.pdf

- Lines 258-260 of the NAESB Operating Practices state:

The subcommittee should prepare a mission statement that should be approved by the subcommittee by a balanced vote and then submitted to the EC or quadrant EC for approval

- Do the changes to the Standard Review Subcommittee Scope of Work Require EC Approval?
- If so, the SRS is seeking approval of the May 18, 2010 Scope of Work document

NERC Reliability Stds. Dev. Plan

- NERC Reliability Standards Development Plan
  - Did not provide additional comments on 2010 – 2012 Plan.
  - Draft 2011 – 2013 Plan is scheduled to be posted the week of August 16th.
  - Special SRS meeting scheduled for August 25, 2010, to review and draft comments.
  - Do SRS comments need to be approved by the Board or Managing Committee before they are sent to NERC?

Questions/Feedback

- Requests others also to look at the NERC activities to assess whether they think NAESB should be developing complementary standards.
- Seeing participation dropping off, (PAP 10 Subcommittee calls were scheduled on top of SRS monthly calls).
- Could use more participation from the west.
- Seeks continued participation in monthly conference call meetings.

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NAESB UPDATE: VERSION 2.0 – WHOLESALE GAS QUADRANT (WGQ)
JULY 29, 2010

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

Version 1.9 was published on September 30, 2009.

2009-10:

Final Actions:

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

R08020 – Provide for enhanced granularity for public utilities in identifying critical operational flow orders, - Approved by the WGQ EC on February 4, 2010.
Recommendation: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r08020.doc *(Ratified June 23, 2010)*

R09001 – Add two data elements to the Transactional Reporting – Interruptible Transportation Document (5.4.22) – Approved by the WGQ EC on February 4, 2010.
Recommendation: http://www.naesb.org/member_login_form.asp?doc=fa_wgq_r09001.doc *(Ratified June 23, 2010)*

R09011 - Change the term Power Plant Operator to Power Plant Gas Coordinator in WEQ-011
Formal comment period ends April 29, 2010.
Recommendation: http://naesb.org/pdf4/r09011_rec.doc *(Ratified July 15, 2010)*

Recommendations:

R10004 - Change the usage of the element Ending Time from Mandatory to Business Conditional in the Nominations dataset; Change the usage of the elements Beginning Time and Ending Time from Mandatory to Business Conditional in the Pre-determined Allocation dataset and Change the usage of Beginning Time (or equivalent element for the specific document below) and Ending Time (or equivalent element for the specific document below) from Mandatory to Senders Option in the Request for Confirmation, Confirmation Response, Scheduled Quantity and Scheduled Quantity for Operator, Allocation, Shipper Imbalance, Measurement Information, Measured Volume Audit Statement, and Transportation / Sales Invoice documents. –
Recommendation: http://www.naesb.org/pdf4/wgq_r10004_rec_080210.doc - for discussion a the August 19, 2010 WGQ EC meeting.

R08028/2010 WGQ Annual Plan Item 3/2009 WGQ Annual Plan Item 4/2008 WGQ Annual Plan Item 3 – Eliminate Standards 5.4.4. (Replacement Capacity);
Formal comment period ends August 13, 2010 - http://www.naesb.org/pdf4/wgq_071410reqcom.doc)
Recommendation: http://www.naesb.org/pdf4/r08028_wgq_2010_api_3_rec_071410.doc,
Attachment 1 Offer: http://www.naesb.org/pdf4/r08028_wgq_2010_api_3_rec_071410_attach1.doc,
Attachment 2 Bid: http://www.naesb.org/pdf4/r08028_wgq_2010_api_3_rec_071410_attach2.doc,
Attachment 3 Award Download: http://www.naesb.org/pdf4/r08028_wgq_2010_api_3_rec_071410_attach3.doc,

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NAESB UPDATE: VERSION 2.0 – WHOLESALE GAS QUADRANT (WGQ)
JULY 29, 2010

Attachment 4 Withdrawal Download:
http://www.naesb.org/pdf4/r08028_wgq_2010_api_3_rec_071410_attach4.doc,
Attachment 5 Business Documentation:
http://www.naesb.org/pdf4/r08028_wgq_2010_api_3_rec_071410_attach5.doc, and
Attachment 6 Principles/Standards/Interpretations as modified in redline:
http://www.naesb.org/pdf4/r08028_wgq_2010_api_3_rec_071410_attach6.doc – for WGQ EC consideration August 19, 2010

R10001 - Update the NAESB Wholesale Gas Quadrant (WGQ) Quadrant Electronic Delivery Mechanism (QEDM) Manual to add the ability to provide Informational Postings reports downloads in a CSV file format;
Formal comment period ends August 5, 2010 - http://www.naesb.org/pdf4/wgq_070610reqcom.doc).
Recommendation: http://www.naesb.org/pdf4/wgq_r10001_rec.doc – for WGQ EC consideration August 19, 2010.

R08008 - Develop customer security administration standards;
Formal comment period ends August 16, 2010 - http://www.naesb.org/pdf4/wgq_071610reqcom.doc
Recommendation: http://www.naesb.org/pdf4/r08008_rec.doc
– for WGQ EC consideration August 19, 2010

R99033/R96018/R04028 – Redesign of Operationally Available and Unsubscribed data set
Formal comment period ended June 17, 2010 - http://www.naesb.org/pdf4/wgq_051810reqcom.doc)
Recommendation: http://www.naesb.org/pdf4/r99033_r96018_r04038_rec_051710.doc,
Attachment 1: http://www.naesb.org/pdf4/r99033_r96018_r04038_rec_051710_attach1.doc, and
Attachment 2: http://www.naesb.org/pdf4/r99033_r96018_r04038_rec_051710_attach2.doc – for WGQ EC consideration August 19, 2010

R09025 – Create a new WGQ EDM standard
Formal comment period ended June 24, 2010 http://www.naesb.org/pdf4/wgq_052510reqcom.doc.
Recommendation: http://naesb.org/pdf4/r09025_rec_052510.doc – for WGQ EC consideration August 19, 2010.

2010 WGQ Annual Plan Item 5 – the NAESB WGQ EDM subcommittee reviews and updates to the NAESB WGQ technical standards per NAESB WGQ Standard No. 4.3.59.
Formal comment period ended June 24, 2010 - : http://www.naesb.org/pdf4/wgq_052510reqcom.doc
Recommendation: http://naesb.org/pdf4/wgq_2010_api_5_rec_052510.doc – for WGQ EC consideration August 19, 2010.

R09014 / 2010 WGQ Annual Plan Item 6 – add NAESB WGQ Standard to the NAESB WGQ QEDM as requested by Tennessee Valley Authority and modify NAESB WGQ Standard No. 4.3.23 per R09014 and WGQ Annual Plan Item #6
Formal comment period ended June 24, 2010 - http://www.naesb.org/pdf4/wgq_052510reqcom.doc.
Recommendation: http://naesb.org/pdf4/r09014_wgq_2010_api_6_rec_052510.doc – for WGQ EC consideration August 19, 2010.

R09021/R09022 – Change Charge Type conditionality in NAESSB WGQ Standard No. 3.1.14.1 Transportation/Sales Invoice
Formal comment period ended June 17, 2010 - http://www.naesb.org/pdf4/wgq_051810reqcom.doc).
Recommendation: http://naesb.org/pdf4/r09021_r09022_rec_051710.doc – for WGQ EC consideration August 19, 2010.

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NAESB UPDATE: VERSION 2.0 – WHOLESALE GAS QUADRANT (WGQ)
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R09006 - Add a new data element "Contract" in the following Transaction Datasets for the NAESB WGQ Version 1.8 release: NAESB WGQ Standard No. 3.4.2, Payment Remittance and NAESB WGQ Standard No. 3.4.4, Service Requester / Charge Allowance Invoice
Formal Comment period ended February 26, 2010.
Recommendation: http://naesb.org/pdf4/r09006_rec.doc

Minor Corrections:

MC10018 – Submitted by D. Davis and C. Burden, Williams Gas Pipeline for NAESB WGQ Version 2.0, NAESB WGQ Standard 2.4.3 – Allocation, NAESB WGQ Standard 2.4.4 – Shipper Imbalance and NAESB WGQ Standard 3.4.1 – Transportation/Sales Invoice: http://naesb.org/pdf4/wgq_mc10018.doc - proposed recommendation to be reviewed by WGQ IR/Technical in August 2010.

MC10022 – Version 2.0 Add code value description "Deferred Asset Surcharge" with code value "DAS" to the list of standardized code values for the following datasets and data elements: 3.4.1, 5.4.1, 5.4.2, 5.4.3, 5.4.7, 5.4.8, 5.4.18, 5.4.19, 5.4.20, 5.4.21, 5.4.22, Submitted by T. Gwilliam, Iroquois Gas Transmission System, L.P. - http://www.naesb.org/pdf4/wgq_mc10022.doc - proposed recommendation to be reviewed by WGQ IR/Technical in August 2010.

MC10024 – Version 2.0 Add additional Reduction Reason code value(s) to NAESB WGQ Standard No. 1.4.6, Submitted by R. Hogge, Dominion Transmission - http://www.naesb.org/pdf4/wgq_mc10024.doc - proposed recommendation to be reviewed by WGQ IR/Technical in August 2010.

MC10026 – Version 2.0 Addition of a Code Value for the data element "Transaction Type" to the following data element "Transaction Type" to the following Transaction Data Sets: Nomination (1.4.1), Scheduled Quantity (1.4.5), Per-determined Allocation (2.4.1), Allocation (2.4.3), Shipper Imbalance (2.4.4), and Transportation/Sales Invoice (3.4.1), Submitted by K. Brooks, Williston Basin Interstate Pipeline Company - http://www.naesb.org/pdf4/wgq_mc10026.doc - proposed recommendation to be reviewed by WGQ IR/Technical in August 2010.

MC10028 – This request proposes adding back the Code Value for the data element "Surcharge Indicator" to the following Transaction Data Sets: Offer Download (5.4.1), Bid Download (5.4.2) and Award Download (5.4.3), Submitted by M. Mahle, Transcanada - http://www.naesb.org/pdf4/wgq_mc10028.doc - to be added to the IR/Technical list of minor corrections for new code values.

MC10029 – NAESB WGQ Standards 4.3.54, Submitted by K. Brooks, Williston Basin Interstate Pipeline Company - http://www.naesb.org/pdf4/wgq_mc10029.doc - to be assigned to WGQ EDM or WGQ BPS.

MC10009 – Version 1.9 (Errata) for: NAESB WGQ Standard No.5.4.1 (Offer Download), NAESB WGQ Standard No.5.4.2 (Bid Download) and NAESB WGQ Standard No.5.4.3 (Award Download), Submitted by D. Davis, Williams Gas Pipeline - Recommendation: http://naesb.org/pdf4/wgq_mc10009_rec_040910.doc - for WGQ EC consideration *(vote due August 6, 2010).*

MC10010 – Version 1.9 (Errata) for NAESB WGQ Standard No.5.4.20 (Transactional Reporting – Capacity Release), Submitted by D. Davis, Williams Gas Pipeline - Recommendation: http://naesb.org/pdf4/wgq_mc10010_rec_040910.doc - for WGQ EC consideration *(vote due August 6, 2010).*

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MC10011 – Version 1.9 (Errata) for NAESB WGQ Standard Nos.3.4.1 (Transportation/Sales Invoice), Submitted by D. Davis, Williams Gas Pipeline - Recommendation: http://naesb.org/pdf4/wgq_mc10011_rec_040910.doc - for WGQ EC consideration *(vote due August 6, 2010).* .

MC10014 – Version 1.9 (Errata) for NAESB WGQ Standard No.5.4.18 (Bid Upload), Submitted by D. Davis/M. Stender, Co-Chairs Information Requirements/Technical Subcommittee – Recommendation: http://www.naesb.org/pdf4/wgq_mc10014_rec_032910.doc - for WGQ EC consideration *(vote due August 6, 2010).*

MC10015 – Version 1.9 (Errata) to NAESB WGQ Standard No.5.4.15 (Response to Upload of Request for Download of Posted Datasets), Submitted by D. Davis/M. Stender, Co-Chairs Information Requirements/Technical Subcommittee – Recommendation http://www.naesb.org/pdf4/wgq_mc10015_rec_042210.doc - for WGQ EC consideration *(vote due August 6, 2010).*

MC10016 – Version 1.9 (Errata) for NAESB WGQ Version 1.9 Standard No.3.4.1 (Transportation/Sales Invoice), Submitted by D. Davis/M. Stender, Co-Chairs Information Requirements/Technical Subcommittee – Recommendation http://www.naesb.org/pdf4/wgq_mc10016_rec_042210.doc - for WGQ EC consideration *(vote due August 6, 2010).*

MC10017 - Version 1.9 (Errata) to NAESB WGQ Standard No. 2.4.6 – Measurement Volume Audit Statement, Submitted by D. Davis/M. Stender, Co-Chairs Information Requirements/Technical Subcommittee – Recommendation http://www.naesb.org/pdf4/wgq_mc10017_rec_042210.doc - for WGQ EC consideration *(vote due August 6, 2010).*

MC10019 - Minor Correction Submitted by D. Davis, Williams Gas Pipeline for NAESB WGQ Version 1.9: Joint NAESB WEQ Version 002.1 Standard WEQ-014-A and WGQ Version 1.0 Standard No. 11.4.1 (Implementation Guide for Electronic Tariff Filing): http://naesb.org/pdf4/wgq_weq_mc10019.doc for WGQ EC consideration *(vote due August 6, 2010).*

MC10020 – Version 1.9 (Errata) for NAESB WGQ Capacity Release, Submitted by D. Davis/M. Stender, Co-Chairs Information Requirements/Technical Subcommittee – Recommendation: http://naesb.org/pdf4/wgq_mc10020_rec_051710.doc - for WGQ EC consideration *(vote due August 6, 2010).*

MC10021 – Version 1.9 (Errata) to NAESB WGQ Standard 5.4.22, Submitted by K. Brooks, Williston Basin Interstate Pipeline, Company – Recommendation: http://www.naesb.org/pdf4/wgq_mc10021_rec_070110.doc - for WGQ EC consideration *(vote due August 6, 2010).*

MC10023 – Version 1.9 (Errata) to the offer Download – NAESB WGQ Standard No. 5.4.1 – PID Segment and Correct the Technical Implementation of Business Process for Confirmation Response – NAESB WGQ Standard No. 1.4.4, Submitted by D. Davis/M. Stender, Co-Chairs Information Requirements/Technical Subcommittee - http://www.naesb.org/pdf4/wgq_mc10023.doc - for WGQ EC consideration *(vote due August 6, 2010).*

MC10025 – Version 1.9 (Errata) for NAESB WGQ Internet Electronic Transport (Internet ET) Manual and NAESB RXQ Internet ET Manual, Version 1.2, Submitted by C. Burden, Joint WGQ Information Requirements/Technical Subcommittee - http://www.naesb.org/pdf4/wgq_req_rgq_mc10025.doc - for WGQ EC consideration *(vote due August 6, 2010).*

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MC10027 - Errata to NAESB WGQ Version 1.9: Correct the condition for the data element Amendment Reporting in the following data sets: Transactional Reporting - Capacity Release (NAESB WGQ Standard No. 5.4.20), Transactional Reporting – Firm Transportation (NAESB WGQ Standard No. 5.4.21) and Transactional Reporting – Interruptible Transportation (NAESB WGQ Standard No. 5.4.22), Submitted by D. Davis/M. Stender, Co-Chairs Information Requirements/Technical Subcommittee - http://www.naesb.org/pdf4/wgq_mc10027.doc *(vote due August 6, 2010).*

MC10012 –Errata for NAESB WGQ Internet Electronic Transport (Internet ET) Manual, Version 1.9 and NAESB RXQ Internet ET Manual Version 1.2: http://www.naesb.org/pdf4/wgq_req_rgq_mc10012.doc - approved by the WGQ and Retail ECs on March 5, 2010 *(Effective Date June 24, 2010)*

MC10001 - Revised - Minor Correction Submitted by M. Stender, El Paso Natural Gas to NAESB standard 5.4.1, 5.4.2 and 5.4.17 version 1.9: http://www.naesb.org/pdf4/wgq_mc10001_revised011210.doc - approved by the WGQ EC on February 4, 2010. *(Effective date March 31, 2010)*

MC10002/R09019 - Minor Correction (errata to Version 1.9) to modify three and add one new Allocation Transaction Type Code Values and modify the Allocation Transaction Type Matrix accordingly in the following data set: Allocation, NAESB WGQ Standard No. 2.4.3 (Note: This recommendation corrects the actions taken for R05028 which were published in Version 1.9.): http://www.naesb.org/pdf4/wgq_mc10002.doc - approved by the WGQ EC on February 4, 2010. *(Effective date March 31, 2010)*

MC10003 - Minor Correction to Version 1.9 NAESB WGQ Standard No. 2.2.4 – Shipper Imbalance (EDI Implementation: ASC X12 Mapping Guidelines and Data Element Cross Reference): http://www.naesb.org/pdf4/wgq_mc10003.doc - approved by the WGQ EC on February 4, 2010. *(Effective date March 31, 2010)*

MC10005 - Recommendation – Submitted by C. Burden, Williams Gas Pipeline – This request proposes the correction of language for the NAESB WGQ Version 1.9 release: NAESB WGQ Standard 4.3.16: http://www.naesb.org/pdf4/wgq_mc10005.doc - approved by the WGQ EC on February 4, 2010. *(Effective date March 31, 2010)*

MC10006 Recommendation – Submitted by C. Burden, Williams Gas Pipeline – This request proposes corrections to NAESB WGQ Standards Booklet 1 of 2, NAESB WGQ QEDM Standards Manual and NAESB WGQ Capacity Release Standards Manual to correct an error in wording: http://www.naesb.org/pdf4/wgq_mc10006.doc - approved by the WGQ EC on February 4, 2010. *(Effective date March 31, 2010)*

MC10007 Recommendation – Submitted by C. Burden, Williams Gas Pipeline – This request proposes corrections to NAESB WGQ QEDM Standards Manual, Version 1.9 to correct browser and plug-in information and a spelling correction: http://www.naesb.org/pdf4/wgq_mc10007.doc - approved by the WGQ EC on February 4, 2010. *(Effective date March 31, 2010)*

MC10008 Recommendation – Submitted by D. Davis / M. Stender, Chair / Co-Chair WGQ Information Requirements / WGQ Technical Subcommittees – This request proposes corrections to NAESB WGQ Standard Nos. 3.4.1 (Transportation/Sales Invoice) and 3.4.4 (Service Requester Level Charge/Allowance Invoice, Version 1.9 to correct the code values in the Code Values Dictionaries: http://naesb.org/pdf4/wgq_mc10008.doc - approved by the WGQ EC on February 4, 2010. *(Effective date March 31, 2010)*

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NAESB UPDATE: VERSION 2.0 – WHOLESALE GAS QUADRANT (WGQ)
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MC09024 Recommendation - Submitted by M. Schmitz, Northern Natural Gas - This request proposes the addition of 1 code values for the data element "Validation Code (Detail)" in the following datasets for the NAESB WGQ Version 1.9 release: NAESB WGQ Standard 1.4.2 - Nomination Quick Response http://www.naesb.org/pdf4/wgq_mc09024_rec_011810.doc - approved by the WGQ EC on February 4, 2010. *(Effective date March 31, 2010)*

MC09033 Recommendation - Submitted by M. Schmitz, Northern Natural Gas - This request proposes the addition of 4 code values for the data element "Charge Type" in the following datasets for the NAESB WGQ Version 1.9 release: NAESB WGQ Standard 3.4.1 – Transportation / Sales Invoice: http://www.naesb.org/pdf4/wgq_mc09033_rec_011910.doc - approved by the WGQ EC on February 4, 2010. *(Effective date March 31, 2010)*

MC09032 Minor Correction to the Canadian Addendum, dated August 2, 2007 (NAESB Standard 6.3.1.CA) as submitted by K. Sappenfield, Chair, WGQ Contracts Subcommittee - http://naesb.org/pdf4/wgq_mc111209reqcom.doc - approved by the WGQ EC on October 29, 2009 *(Effective date December 14, 2009)*

TIMELINE:

- Version 2.0 is scheduled for publication no earlier than November 1, 2010 and no later than November 30, 2010.
- To back into this date – all standards should be ratified by date of publication, and EC actions should be taken one month prior, to publication, all subcommittee actions should be taken three months prior to publication.

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

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NAESB UPDATE: VERSION 2.0 – WHOLESALE GAS QUADRANT (WGQ)
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Items not to be included:

R09017 – Develop a new ISDA Gas Confirmation Form for use with the ISD Gas Annex based on the current Confirmation Form under the NAESB Base Contract for Sale and Purchase of Natural Gas – http://naesb.org/member_login_form.asp?doc=wgq_rat011310_r09017_rec.doc - Ratification on February 12, 2010.

Attachment (Exhibit A):
http://naesb.org/member_login_form.asp?doc=wgq_rat011310_r09017_rec_attachment.doc

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NAESB UPDATE: VERSION 002.2 – WHOLESALE ELECTRIC QUADRANT (WEQ)
JULY 29, 2010

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

Version 002.1 was published on March 11, 2009.

2009-10:

Final Actions:

2008 WEQ Annual Plan Item 5(a) – Review and develop business practice standards to support DR and DSM-EE programs – Ratified March 16, 2009 - http://naesb.org/member_login_check.asp?doc=fa_weq_2008_api5a.doc *(New WEQ-015)*

2009 WEQ Annual Plan Item 3(d) – Order 717, Standards of Conduct – Ratified June 15, 2009 - http://naesb.org/member_login_check.asp?doc=fa_weq_2009_api_3d.doc *(WEQ-001. WEQ-002, WEQ-003)*

2009 WEQ Annual Plan Item 2(a)(ii)(3) – Rollover Rights on Redirect on a Firm Basis – Ratified July 27, 2009 - http://naesb.org/member_login_check.asp?doc=fa_weq_2009_ap_2aii3.doc (*WEQ-001, WEQ-002, WEQ-003, WEQ-013)*

2009 WEQ Annual Plan Item 1(a), 3(a)(vii)/R05020 – Modifications to WEQ-004 Coordinate Interchange as approved by the WEQ EC on October 27, 2009 – Ratified December 14, 2009 - http://naesb.org/member_login_form.asp?doc=fa_weq_2009_api_1a_3avii_r05020.doc *(WEQ-001, WEQ-002, WEQ-003, WEQ-004, WEQ-013)*

Attachment: http://naesb.org/member_login_form.asp?doc=fa_weq_2009_api_1a_3avii_r05020_attach.doc

2009 WEQ Annual Plan Item 5(b) – Modify NAESB definition to address internal inconsistencies and inconsistencies with the NERC glossary – approved by the WEQ EC on February 2, 2010 – Ratified March 24, 2010 - http://naesb.org/member_login_check.asp?doc=fa_weq_2009_api5b.doc

2009 WEQ Annual Plan Items 5(a)(2), 5(i)/R08004/R09011 – Multiple Annual Plan Items affecting WEQ-011 Gas/Electric Coordination – Approved by the WEQ EC on June 11, 2010 via Notational Ballot. – Ratified July 15, 2010
Recommendation:
http://www.naesb.org/member_login_form.asp?doc=fa_weq_2009_api_5a2_5i_r08004_r09011.doc
Attachments:
http://www.naesb.org/member_login_form.asp?doc=fa_weq_2009_api_5a2_5i_r08004_r09011_attach1.doc

2009 WEQ Annual Plan Items 3(a)(ii)(1)/R07013 - Develop a Confidentiality Agreement - http://www.naesb.org/pdf4/weq_2009_api_3aii1_r07013_rec.doc - Approved by the WEQ EC on May 4, 2010 ***(No further actions needed)***

Recommendations:

2010 WEQ Annual Plan Item No. 6.a - Requirements Specifications for Common Electricity Product and Pricing Definition – for NIST PAP03 as revised by the WEQ EC on July 7, 2010.

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NAESB UPDATE: VERSION 002.2 – WHOLESALE ELECTRIC QUADRANT (WEQ)
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Recommendation:
http://www.naesb.org/member_login_form.asp?doc=weq_rat072110_weq_2010_api_6a_rec_clean.doc - Member ratification ends August 21, 2010.

2010 WEQ Annual Plan Item No. 6.b - Requirements Specifications for Common Scheduling Mechanism for Energy Transactions – for NIST PAP04 as revised by the WEQ EC on July 7, 2010.
Recommendation:
http://www.naesb.org/member_login_form.asp?doc=weq_rat072110_weq_2010_api_6b_rec_clean.doc - Member ratification ends August 21, 2010.

2010 WEQ Annual Plan Item No. 6.c - Requirements Specifications for Wholesale Standard DR Signals - for NIST PAP09 as revised by the WEQ EC on July 7, 2010.
Recommendation:
http://www.naesb.org/member_login_form.asp?doc=weq_rat072110_weq_2010_api_6c_rec_clean.doc - Member ratification ends August 21, 2010.

2009 WEQ Annual Plan Item 2(a)(i)(1-8) – Develop business practice standards to better coordinate the use of the transmission system among neighboring transmission providers. Such business practice standards would be based on recommendations from NERC's Long Term ATC/AFC Task Force and would involve revised procedures for the ATC calculation and/or revised protocols as determined by the final order. Development is using joint standards development process with NERC. Request R050004 was expanded to include the Order No. 890 (Docket Nos. RM05-25-000 and RM05-17-000) and Order No. 890-A (Docket Nos. RM05-17-001, 002 and RM05-25-001, 002), "Preventing Undue Discrimination and Preference in Transmission Services," issued April 11, 2007). Group 3: Network Service on OASIS – Recommendation currently under development by the WEQ OASIS Subcommittee http://naesb.org/weq/weq_oasis.asp

2009 Annual Plan Item 2.a.i.1 through 2.a.i.8 and 3.a.i - Network Service on OASIS – Recommendation currently under development by the WEQ OASIS Subcommittee. Informal comment period ended July 12, 2010.

Request for Informal Comments - http://www.naesb.org/pdf4/weq_oasis062110reqcom.doc

Minor Corrections:

Minor Correction MC10019, Submitted by D. Davis, Williams Gas Pipeline for NAESB WGQ Version 1.9: Joint NAESB WEQ Version 002.1 Standard WEQ-014-A and WGQ Version 1.0 Standard No. 11.4.1 (Implementation Guide for Electronic Tariff Filing): http://naesb.org/pdf4/wgq_weq_mc10019.doc - for WEQ EC consideration August 17, 2010.

WEQ-001 Minor Correction to be applied to Version 002.2, Submitted by M. Goldberg, ISO New England Inc.: http://www.naesb.org/pdf4/weq_ec081710w1.doc - for WEQ EC consideration August 17, 2010.

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

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NAESB UPDATE: VERSION 002.2 – WHOLESALE ELECTRIC QUADRANT (WEQ)
JULY 29, 2010

TIMELINE:

- Version 002.2 is scheduled for publication end of third quarter 2010.
- To back into this date – all standards should be ratified by date of publication, and EC actions should be taken one month prior, to publication, all subcommittee actions should be taken three months prior to publication.

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

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NAESB UPDATE: VERSION 1.3 – RETAIL ELECTRIC AND RETAIL GAS QUADRANT (REQ/RGQ)
JULY 29, 2010

ACTIONS TO BE APPLIED TO RETAIL VERSION 1.2 TO CREATE RETAIL VERSION 1.3:

Version 1.2 was published on December 31, 2009.

2009-10:

Final Actions:

None to date

Recommendations:

2009 Retail Annual Plan Item 1/R05016 – Develop Technical Electronic Implementation Standards and Data Dictionaries (*Book 9: Customer Billing and Payment Notification via Uniform Electronic Transaction*) – approved by the Retail ECs on February 3, 2010.

Recommendation – Part A with Revised Attachments - http://www.naesb.org/pdf4/retail_2009_api1_r05016_rev_rec.doc

Revised Attachment 1 – Data Dictionaries - http://www.naesb.org/pdf4/retail_2009_api1_r05016_rev_rec_attach1.doc

Revised Attachment 2 – X12 Technical Implementation Guidelines - http://www.naesb.org/pdf4/retail_2009_api1_r05016_rev_rec_attach2.doc

2010 REQ Annual Plan Item No. 9.a - Requirements Specifications for Common Electricity Product and Pricing Definition – for NIST PAP03 as approved by the REQ EC on June 16, 2010.
Recommendation: http://www.naesb.org/member_login_form.asp?doc=req_rat063010_req_2010_api_9a_rec.doc - member ratification ends July 30, 2010.

2010 REQ Annual Plan Item No. 9.b - Requirements Specifications for Common Scheduling Mechanism for Energy Transactions – for NIST PAP04 as approved by the REQ EC on June 16, 2010.
Recommendation: http://www.naesb.org/member_login_form.asp?doc=req_rat063010_req_2010_api_9b_rec.doc - member ratification ends July 30, 2010.

2010 REQ Annual Plan Item No. 9.c - Requirements Specifications for Retail Standard DR Signals - for NIST PAP09 as approved by the REQ EC on June 16, 2010.
Recommendation: http://www.naesb.org/member_login_form.asp?doc=req_rat063010_req_2010_api_9c_rec.doc - member ratification ends July 30, 2010.

Retail 2009 Annual Plan Item 10a and 10c - Service Request, Disconnection and Reconnection in the Registration Agent Model – revised by the Retail Executive Committees on 05/05/2010 – formal comment period ended May 7, 2010.

Recommendation - http://naesb.org/pdf4/retail_2009_ap_10a_10c_rec.doc - for EC consideration August 18, 2010.

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NAESB UPDATE: VERSION 1.3 – RETAIL ELECTRIC AND RETAIL GAS QUADRANT (REQ/RGQ)
JULY 29, 2010

Recommendation 2010 Retail Annual Plan Item No. 4 - Billing and Payments - formal comment period ended July 15, 2010.

Recommendation: http://naesb.org/pdf4/retail_2010_ap4_rec.doc and

Attachment: http://naesb.org/pdf4/retail_2010_ap4_rec_attachment.ppt (Models) - for Retail EC consideration August 18, 2010.

Minor Corrections:

MC10025 - Version 1.9 (Errata) for NAESB WGQ Internet Electronic Transport (Internet ET) Manual and NAESB RXQ Internet ET Manual, Version 1.2, Submitted by C. Burden, Joint WGQ Information Requirements/Technical Subcommittee http://www.naesb.org/pdf4/wgq_req_rgq_mc10025.doc - for Retail EC consideration August 18, 2010.

MC10012 –Errata for NAESB WGQ Internet Electronic Transport (Internet ET) Manual, Version 1.9 and NAESB RXQ Internet ET Manual Version 1.2: http://www.naesb.org/pdf4/wgq_req_rgq_mc10012.doc - approved by the WGQ and Retail ECs on March 5, 2010 *(Effective Date June 24, 2010)*

TIMELINE:

- Version 1.3 is scheduled for publication in 2011.
- To back into this date – all standards should be ratified by date of publication, and EC actions should be taken one month prior, to publication, all subcommittee actions should be taken three months prior to publication.

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

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NORTH AMERICAN ENERGY STANDARDS BOARD

2010 ANNUAL PLAN for the WHOLESALE ELECTRIC QUADRANT

As Approved by NAESB Board of Directors on June 24, 2010 with Proposed Revisions by ~~BPS and SRS Co-Chairs~~Subcommittee Leadership ~~July 30, 2010~~

	Item Description	Completion[1]	Assignment[2]
1	**Develop business practices standards as needed to complement reliability standards**		
	Develop business practice standards to support and complement NERC reliability standards, NERC policies and NERC standards authorization requests (SARs) using the NERC/NAESB Coordination Joint Standards Development Process as appropriate. Current NAESB activities underway to develop business practice standards that are supportive of this annual plan item are:		
a)	Parallel Flow Visualization/Mitigation for Reliability Coordinators in the Eastern Interconnection.	~~2010~~	~~BPS~~
	Note: Consideration should be given to provisional item 4. Work is being coordinated with the NERC IDC Working Group.		
	~~Status: Underway~~		
i)	Interim solution for Parallel Flow Visualization	3rd Q, 2010	BPS
	Status: Completed		
	Interim solution is needed to support November 1, 2010 NERC implementation of IDC Change Order 283 into the IDC Staging Environment.		
ii)	Final solution for Parallel Flow Visualization	3rd Q, 2011	BPS
	Status: Started		
b)	Time Error and Inadvertent (BAL-004 and BAL-006) Coordination with NERC	TBD	TIMTF
	Status: Monitor. (Upon initiation of this item by NAESB. a completion date will be determined. Based on discussions with NERC staff regarding the Balancing Authority Controls Standards Drafting Team's timeline the completion date has been changed to tbd.)		
c)	DCS and AGC (BAL-002 and BAL-005) Coordination with NERC	TBD	TIMTF
	Status Monitor. (Upon initiation of this item by NAESB. a completion date will be determined. Based on discussions with NERC staff regarding the Balancing Authority Controls Standards Drafting Team's timeline the completion date has been changed to tbd.)		
d)	Monitor and develop NAESB business practices as needed to complement NERC reliability standards for FAC-012 and FAC-013.	TBD	SRS
	Status: ~~Monitor.~~Started – The SRS began reviewing Orders 693, 729, and 890 and NERC SARs to understand how FAC-012 and FAC-013 were linked to NAESB as possibly requiring coordination.		

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	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)[1]**		
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, 2010	OASIS
	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, 2010	OASIS
	Status: Underway		
3)	Masking of Designated Network Resource Operating Restrictions and Generating Cost Information	3rd Q, 2010	OASIS
	Status: Underway		
4)	Procedural Requirements for Submitting Designations over new OASIS Functionality	3rd Q, 2010	OASIS
	Status: Underway		
5)	Specify How Designated Network Service Informational Postings are Posted on OASIS	3rd Q, 2010	OASIS
	Status: Underway		
6)	Develop standards for the treatment of OASIS Requests when the Customer Fails to Provide the Necessary Attestation	3rd Q, 2010	OASIS
	Status: Underway		

[1] FERC Order No. 890, issued February 16, 2007 can be accessed from the following link - http://www.naesb.org/doc_view4.asp?doc=ferc021607.doc

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Item Description		Completion[1]	Assignment[2]
7)	Procedural Requirements for Submitting Both Temporary and Indefinite Terminations of Network Resources Status: Underway	3rd Q, 2010	OASIS
8)	Procedures for Submitting and Processing Requests for Concomitant Evaluations of Transmission Requests and Temporary Terminations Status: Underway	3rd Q, 2010	OASIS
ii)	Group 4: Pre-Emption; Request No. R05019		
1)	Pre-Emption Status: Not Started	2011	OASIS
2)	Request No. R05019 Status: Not Started	2011	OASIS
iii)	Group 5: Paragraph 1377[2] – Group 5 work should precede group 4 work		
1)	Paragraph 1377-Coordination of Requests Across Multiple Transmission Systems Status: Underway, Scoping Group work product underway	4th Q, 2010	OASIS
2)	Re-Bid Of Partial Service across Multiple Transmission Providers' Systems Status: Underway, Scoping Group work product underway	4th Q, 2010	OASIS
3)	Group DNR requests from a system with point-to-point requests on other systems for synchronization Status: Underway, Scoping Group work product underway	4th Q, 2010	OASIS

[2] Paragraph 1377 of FERC Order No. 890, issued February 16, 2007: The Commission agrees that transmission requests across multiple transmission systems should be coordinated by the relevant transmission providers. We will not, however, amend the pro forma OATT to require such coordination. Rather, we require transmission providers working through NAESB to develop business practice standards related to coordination of requests across multiple transmission systems. In order to provide guidance to NAESB, we will articulate the principles that should govern processing across multiple systems. All the transmission providers involved in a request across multiple systems should consider a request that requires studies across multiple systems to be a single application for purposes of establishing the deadlines for rendering an agreement for service, revising queue status, eliciting deposits and commencing service. In order to preserve the rights of other transmission customers with studies in the queue, the priority for the single application should be based on the latest priority across the transmission providers involved in the multiple system request. We note that regional entities like wesTTrans are already coordinating requests across multiple transmission systems and we believe such coordination is an acceptable solution to this issue.

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	Item Description	Completion[1]	Assignment[2]
iv)	Group 6: Miscellaneous (Paragraphs 1390[3] and 1627[4] of FERC Order No. 890)		
	1) Paragraph 1390 of Order 890 – Terminations related to: deficient requests, customer failure to pay required annual reservation fee, and customer modifications to applications which are meaningfully different. Status: Not Started	2011	OASIS
	2) Paragraphs 1627 of Order 890 – Posting of additional information on OASIS regarding firm transmission curtailments Status: Not Started	2011	OASIS
	3) Redispatch Cost Posting to allow for posting of third party offers of planning redispatch services. Status: Not Started	2011	OASIS

[3] Paragraph 1390 of FERC Order No. 890, issued February 16, 2007: We will not modify the pro forma OATT to address requests to allow the transmission provider to terminate idle transmission service requests. NAESB's business practice 001-4.11 allows the transmission provider to retract a request if the transmission customer does not respond to an acceptance within the time established in NAESB business practice standard 001-4.13. Therefore, we interpret TDU Systems comments to refer to circumstances when a transmission customer fails to respond to the transmission provider's request for additional information during the course of a request study. As discussed above, by the time the transmission provider offers a system impact study agreement, it should have all of the information that it needs to complete the study. Pursuant to section 17.4 of the pro forma OATT, the transmission provider can deem a transmission service request deficient if the transmission customer does not provide all of the information the transmission provider needs to evaluate the request for service. We will revise section 17.7 of the pro forma OATT so that the transmission provider is able to terminate a request for transmission service if a transmission customer that is extending the commencement of service does not pay the required annual reservation fee within 15 days of notifying the transmission provider that it would like to extend the commencement of service. We will not change the pro forma OATT to allow the transmission provider to terminate a transmission service request if the transmission customer changes its application for service. We believe the existing pro forma OATT is sufficient to allow a transmission provider to manage situations where the transmission customer modifies its application for service to the point that the customer is requesting transmission service that is meaningfully different than its initial request.

[4] Paragraph 1627 of FERC Order No. 890, issued February 16, 2007: We agree with suggestions for the posting of additional curtailment information on OASIS and, therefore, require transmission providers, working through NAESB, to develop a detailed template for the posting of additional information on OASIS regarding firm transmission curtailments. Transmission providers need not implement this new OASIS functionality and any related business practices until NAESB develops appropriate standards. These postings must include all circumstances and events contributing to the need for a firm service curtailment, specific services and customers curtailed (including the transmission provider's own retail loads), and the duration of the curtailment. This information is in addition to the Commission's existing requirements: (1) when any transmission is curtailed or interrupted, the transmission provider must post notice of the curtailment or interruption on OASIS, and the transmission provider must state on OASIS the reason why the transaction could not be continued or completed; (2) information to support any such curtailment or interruption, including the operating status of facilities involved in the constraint or interruption, must be maintained for three years and made available upon request to the curtailed or interrupted customer, the Commission's Staff, and any other person who requests it; and, (3) any offer to adjust the operation of the transmission provider's system to restore a curtailed or interrupted transaction must be posted and made available to all curtailed and interrupted transmission customers at the same time.

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Item Description	Completion[1]	Assignment[2]
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, 2010	OASIS
3 Develop business practices standards to improve the current operation of the wholesale electric market and develop and maintain business practice and communication standards for OASIS and Electronic Scheduling		
a) Develop and/or maintain business practice standards as needed for OASIS and electronic scheduling. Specific items to address include:		
i) Network Services: Determine and develop needed business practice standards or other support is needed to support use of OASIS for Network Service transactions (R04006E). (Related to AP 2(a)(iii)) Status: Underway	3rd Q, 2010	OASIS
ii) Registry (TSIN): Determine and develop needed business practice standards to support the registry functions currently supported by NERC (R04037, R06027).		
1) Transition the TSIN Registry from NERC to NAESB as the enhanced Electric Industry Registry (EIR), (R06027). Status: Underway	2010	NAESB/NERC Administration, JESS
iii) Document procedures used to implement the displacement/interruption terms of the Pro Forma tariff (R05019). Status: Deleted as a duplicate of 2009 AP item 2.a.ii.2		
iv) Make remaining incremental enhancements to OASIS as an outgrowth of the NAESB March 29, 2005 conference on the future of OASIS (R05026). Scoping statement completed by SRS and assignments made to BPS and OASIS.		
1) Eliminate Masking of TSR tag source and sink when requested status is denied, withdrawn refused, displaced, invalid, declined, annulled or retracted Status: Not Started	2011	OASIS

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		Item Description	Completion[1]	Assignment[2]
	2)	Initiate standard that eliminates the disparity of posting "sensitive" information. This standard should also include procedures of user certification that allows access to this class of information. Status: Underway (upon further development of this item by NAESB, a completion date will be determined)	2011	OASIS
	3)	Enhance the TSR result postings to allow showing of (i) limiting transmission elements and (ii) available generation dispatch options that would allow acceptance of reservation request. Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2011	OASIS
v)		Develop, coordinate interoperability testing, and implement e-Tag version 1.8.1 Status: Completed	1st Q, 2010	JESS
vi)		Review and correct WEQ-004 Coordinate Interchange Business Practice Standard as needed based on activities in NERC Project 2008-12, Coordinate Interchange Standards Revisions and supporting EOP-002-2 R4 and R6. [note: this is a new item] Status: Underway Completion date dependent upon coordination activities with NERC	2010	JESS
b)		Develop and/or maintain standard communication protocols and cyber-security business practices as needed.		
i)		Develop PKI certification program for e-Tag and OASIS Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2010	Board Certification Program Committee
ii)		Develop PKI standards for OASIS. Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2011	OASIS
iii)		Develop Industry Implementation Plan for meeting PKI Standard requirements for e-tagging. Status: Underway. Full e-Tag implementation (server & client side) is linked to the transition of the Registry from NERC to NAESB and NAESB implementation.	TBD – dependent on item above (i) and EIR	JESS

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	Item Description	Completion[1]	Assignment[2]
4	**Review and develop business practices standards to Demand Response, Demand Side Management and Energy Efficiency Programs** Review and develop needed model business practices for a standardized method for quantifying benefits, savings, cost avoidance and/or the reduction in energy demand and usage derived from the implementation of demand side management and energy efficiency programs. This effort will include demand side response, energy efficiency programs and metering, including the 'curtailment service provider' program.		
a)	Review the NAESB Business Practices for Measurement and Verification of Wholesale Electricity Demand Response (WEQ-015) in conjunction with the IRC developed Demand Response Matrix and identify business practice requirements that could be improved or made clearer through the addition of specific technical detail. The wholesale and retail demand response work groups and the Smart Grid Standards Subcommittees should actively and timely communicate and coordinate work products to ensure consistency between the three work groups. Each work group should take into account the work products developed by the other. Status: In Progress	Phase 2	WEQ Section of the Joint WEQ/REQ DSM-EE Subcommittee
b)	For each performance evaluation type/service type combination identified in WEQ-015, using the IRC matrix as a starting point, assess and determine what standards or guidelines, if any, should be developed to aid all participants in the use of measurement and verification methods for demand response programs in organized wholesale electric markets. If the determination is made that standards or guidelines will be developed, those items will be added as sub-items to 4(b). Status: In Progress	Phase 2	WEQ Section of the Joint WEQ/REQ DSM-EE Subcommittee
c)	Develop glossary for business practice standards Status: Ongoing	Ongoing	Joint WEQ/REQ DSM Subcommittee
d)	Develop business practice standards used to measure and verify reductions in energy and demand from energy efficiency in wholesale and retail markets.[3] This includes developing business practice standards to measure and verify energy reductions that are made to comply with a Renewable Portfolio Standard that included energy efficiency or a stand-alone Energy Efficiency Portfolio Standard. Status: Underway	4th Q, 2010	Joint WEQ/REQ DSM-EE Subcommittee
e)	Create common interfaces and data structures necessary for enrolling DR sites into a DR program (Request No. R10002) Status: Not Started	4th Q, 2010	Joint WEQ/REQ DSM-EE Subcommittee with coordination with Smart Grid Standards Task Force and REQ BPS

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	Item Description	Completion[1]	Assignment[2]
5	**Maintain existing body of Version 2.x standards**		
a)	Make consistency changes to Version 2.2 standards as directed by the WEQ Leadership Committee on December 12, 2007 OASIS Consistency Changes (R08001, R08002, R08003, R08005) Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2011	OASIS
b)	Consistent with ¶51 of FERC Order No. 890-A, add AFC and TFC values to the "System_Attribute" data element of the NAESB Standard WEQ-003: OASIS S&CP Data Dictionaries. (R08011) Status: Not Started. This Standards Request was assigned to the OASIS in May 2008.	2011	OASIS
c)	Correct WEQ 013-2.6.7.2. – Resale off OASIS (R08027) Status: Not Started	TBD	OASIS
d)	Add language to WEQ-001-4 Online Negotiation and Confirmation process to clarify Table 4-3 (R09003) Status: Not Started	TBD	OASIS
e)	Create a new OASIS mechanism that allows for the merger of like reservations without the use of the resale mechanism (R09015) Status: Not Started	TBD	OASIS
6.	**Develop Smart Grid Wholesale and Retail Electric Standards -** The wholesale and retail demand response work groups and the Smart Grid task force should actively and timely communicate and coordinate work products to ensure consistency between the three work groups. Each work group should take into account the work products developed by the other.		
a)	Develop requirements and use cases for PAP 03 – Pricing Model		
	i). Phase 1 Status: Completed	1st Q, 2010	Joint WEQ/REQ SGS Subcommittee
	ii) Phase 2 Status: Underway	3rd Q, 2010	Joint WEQ/REQ SGS Subcommittee
b)	Develop requirements and use cases for PAP 04 – Scheduling Model		
	i) Phase 1 Status: Completed	1st Q, 2010	Joint WEQ/REQ SGS Subcommittee
	ii) Phase 2 Status: Underway	3rd Q, 2010	Joint WEQ/REQ SGS Subcommittee
c)	Develop requirements and use cases for PAP 09 – Demand Response/Distributed Energy Resources		

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	Item Description	Completion[1]	Assignment[2]
i)	Phase 1 Status: Completed	1st Q, 2010	WEQ Section of the Joint WEQ/REQ SGS Subcommittee
ii)	Phase 2 Status: Underway	3rd Q, 2010	WEQ Section of the Joint WEQ/REQ SGS Subcommittee
d)	Develop standards to support PAP 10 – Standards Energy Usage Information		
i)	Act as a convener (develop and implement a plan to expedite harmonized standards development and adoption within the associated standards bodies) and develop business practice standards as needed and assigned to NAESB for PAP 10 – Standard Energy Usage Information Status: Completed	2nd Q, 2010	Joint WEQ/REQ PAP 10 SGS Subcommittee
ii)	Develop Information Model and related business practices Status: Underway	4th Q, 2010	Joint WEQ/REQ PAP 10 SGS Subcommittee
7.	**Develop or modify standards to Support FERC Order No. 676-E, (Docket No. RM 05-5-013)**		
a)	Review standards 001-14.1.3 and 001-15.1.2 based on FERC Order No. 676-E (See ¶ 39[5]) Status: Not Started	2011	OASIS
b)	Develop standards to support the Transmission Provider right to reassess the availability of conditional firm (See ¶ 72[6]) Status: Not Started	2011	OASIS

[5] 39. In regards to Entergy's question of whether the transmission provider's calculated and posted available flowgate capability values should be used to fulfill the posting requirements set forth in Standard 001-14 and 001-15 in instances where there is no requirement to convert this calculation to available transfer capability values, we agree with Entergy that this requirement can be met by the transmission provider posting its available flowgate capability values. As to EPSA's argument that Standard 001-15 falls short of the goals of Order No. 890, we find that, with the exception of Standard 001-15.1.2, compliance with Standard 001-15 provides all of the information required by Order No. 890. However, Standards 001-14.1.3 and 001-15.1.2 permit transmission providers to post an available transfer capability change narrative within five business days of meeting the criteria under which a narrative is required to be posted. In Order No. 890, the Commission rejected calls for delays prior to posting data and required posting as soon as possible. We do not find the NAESB standard meets this criterion and therefore decline to incorporate Standards 001-14.1.3 and 001-15.1.2 by reference. Transmission providers must post their narratives as soon as feasibly possible. Posting within one day would appear in most cases to be reasonable.

[6] 72. However, we reiterate here the Commission's finding in Order No. 890 that a transmission provider is permitted to extend its right to reassess the availability of conditional firm service. Since the Version 002.1 Standards do not specifically address this issue, we would ask the industry, working through NAESB, to continue to look at additional business practice standards facilitating a transmission provider's extension of its right to perform a reassessment

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	Item Description	Completion[1]	Assignment[2]
c)	Prepare status reports every six months regarding the development of standards for the coordination of transmission service requests across multiple transmission systems (See ¶ 105[7]). This annual plan item is tied to Annual Plan Item 2(a)(iii) Status: Not Started	Ongoing	NAESB Office

[7] 105. We agree that insufficient progress has been made on this issue. While we acknowledge that development of standards addressing this issue is included in NAESB's 2009 WEQ Annual Plan, we nevertheless urge NAESB to address this issue as soon as possible. Accordingly, we request that NAESB provide the Commission with a status report concerning its progress on this issue every six months, counting from the date this final rule is published in the Federal Register, until NAESB's adoption of the applicable standard(s).

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PROVISIONAL ITEMS

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

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

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

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

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

6 *Provisional Item No. 6 was added to the 2010 Annual Plan as Item No. 1(d).*

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

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

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

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

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

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

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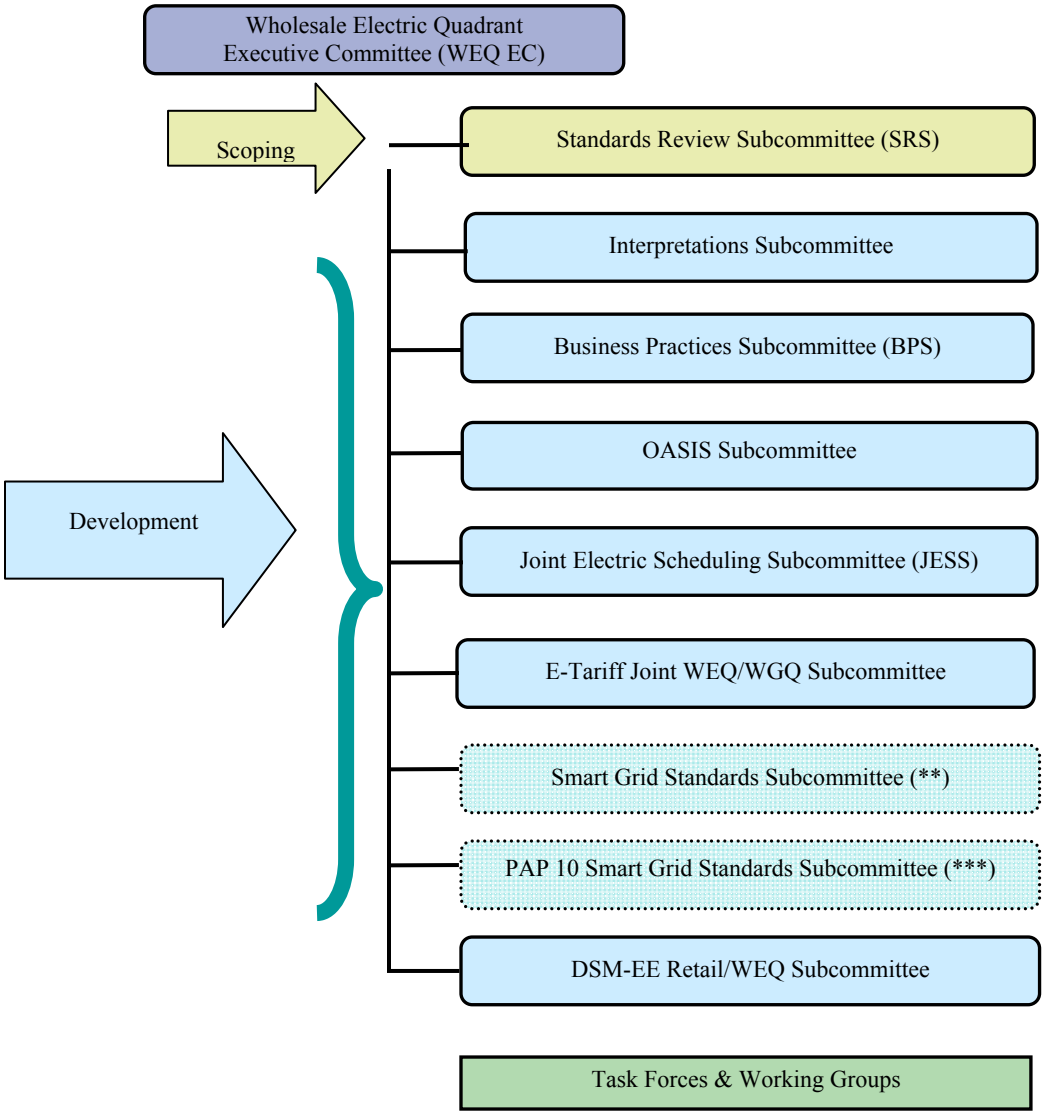
WHOLESALE ELECTRIC QUADRANT EXECUTIVE COMMITTEE AND SUBCOMMITTEE STRUCTURE



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

(**) The Smart Grid Standards Subcommittee is a joint group of the retail electric and wholesale electric quadrants with other standards development groups such as OASIS (Organization for the Advancement of Structured Information Standards, not Open Access Same Time Information Systems related to NAESB standards and FERC actions), CalConnect, FIX and UCAIug, among

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others. Direction may be given from NIST, DoE or FERC and the group reports jointly to the NAESB Board Smart Grid Strategic Steering Committee and the WEQ and REQ ECs. The group is chaired by Brent Hodges, Joe Zhou, Wayne Longcore and Robert Burke.

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

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End Notes WEQ 2010 Annual Plan:

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

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

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

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

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August 1, 2010

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

FROM: Cory Galik Cummings, NAESB Staff Attorney

RE: Draft Minutes of the NAESB Board Meeting –June 24, 2010

NAESB BOARD OF DIRECTORS MEETING
Marriott IAH Airport Hotel, Houston, Texas
Thursday, June 24, 2010 – 9:00 a.m. to 1:00 pm Central
DRAFT MINUTES

1. Administration and Welcome

Mr. Cleveland welcomed the Board members and guests in the room and on the phone. Mr. Boswell provided the antitrust guidance. Ms. Cummings called the roll of the NAESB Board members. Quorum was established.

2. Adoption of the Agenda and Minutes

The Board members reviewed the draft agenda. Ms. Crockett moved to adopt the agenda as drafted and Mr. Ellsworth seconded the motion. The motion passed without objection.

Next, the Board members reviewed the draft minutes from the March 25, 2010 Board meeting. Mr. Cleveland asked if there were any proposed modifications. No modifications were offered. Mr. Ackerman moved to adopt the minutes as drafted and Ms. Crockett seconded the motion. The motion passed without objection

3. Membership and Financial Report

Membership Report: Ms. McQuade reviewed the membership report. This quarter NAESB has experienced a net gain in membership, largely in response to the creation of the new WEQ segment and smart grid activities. The hard work of the Board has paid off this quarter and there are currently several new prospects in touch with the NAESB staff.

Financial Report: Ms. Wishart provided the financial report. NAESB's revenues are strong and expenses are staying even with last year. Ms. McQuade thanked the Revenue Committee for their hard work, the results of which are reflected in the financials.

4. Reports from Board Committees

Resources: Ms. McQuade provided the report of the Resources Committee. She noted the increase in membership due to NAESB's smart grid and demand response efforts. She encouraged the Board members to inform the NAESB office of colleagues that could benefit from NAESB membership and they will be provided with membership information. Mr. Booe also noted that there were seats available on the WEQ Board and Executive Committee.

Critical Infrastructure Committee: Mr. Burks provided an update of the activities of the Critical Infrastructure Committee. The main focus of the committee has been a substantial review of documents from NERC, NIST and various other sources. Mr. Hurley reviewed the current draft of Lieberman Bill, which attempts to revise the way to respond to cybersecuirty risks. Ms. McQuade reiterated that the Committee will only function as an advisory group to the Board on cyber security and critical infrastructure issues concerning commercial aspects and will not address the electric reliability aspects which are more appropriately addressed in the NERC venue.

Retail Restructuring Update: Mr. Minneman provided an update of the restructuring of the Retail Quadrants. The Retail Quadrants modified their structure in the third quarter of 2009 creating three segments; 1) the Suppliers/Services Providers segment, 2) the Utilities segment, and 3) the End Users/Public Agencies segment.

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This segment structure was developed in an effort to better reflect the status of the current retail market and appeal to participants interested in the Demand Side Management and Energy Efficiency (DSM-EE) and Smart Grid efforts. The Retail Quadrants have seen an increase in membership and a growing interest of potential members. Mr. Minneman noted that the restructuring actions taken last year appear to be moving the Quadrants in the right direction, even though the Quadrants membership statistics are still below the minimum requirements.

Board Resolution: Mr. Cleveland stated that the Managing Committee met prior to the board meeting to provide guidance to Executive Committee members on how to best manage formal comments. Ms. McQuade provided the context for the resolution. NAESB's smart grid efforts include a large number of groups that are new to the NAESB process. The work products being created by the task force will represent WEQ and REQ market requirements that can also support the work other groups are currently drafting. The standards developed by NAESB are considered seed standards that these other groups can use to develop their work product. The Board Resolution stated:

Whereas

The NAESB Smart Grid Standards Subcommittees include participation and leadership from many standards groups who will depend on NAESB work products as they proceed in their own efforts, and

NAESB standards developed to support Smart Grid activity should strive, where feasible, to be consistent for both the wholesale and retail electric market applications, now therefore

Be it Resolved that

the Board of Directors determines that the Smart Grid standards developed by the wholesale and retail electric executive committees should strive to be consistent in all areas excepting where there are substantive jurisdictional differences,

the Board of Directors urges the wholesale and retail electric executive committees to show great deference to the work products provided by the Smart Grid Standards Subcommittees, and provide explanations when substantively deviating from the subcommittee recommendations for standards, and

for the phase 1 Priority Action Plans 3, 4 and 9 smart grid standards recently adopted, the Board of Directors requests the wholesale electric executive committee to reconsider the changes made by the executive committee to the subcommittee work products in light of this resolution and make changes accordingly, and

the Board of Directors considers that participants need sufficient time to consider comments prior to taking action; thus, henceforth all comments shall be provided to meeting participants at least three business days in advance of the meeting at which they will be discussed, absent compelling reason(s). It shall be the responsibility of any party filing late comments to demonstrate such compelling reason(s). The committee members, by balanced segment vote, shall determine whether to consider such late comments at that meeting.

Mr. Novak asked if the three-day rule applied only to these particular recommendations, or would the rule carry forward to all future recommendations. Mr. Cleveland answered that it would carry forward. Mr. Lucas asked for clarification on the first resolution. Mr. Desselle answered that the WEQ and REQ recommendations should be consistent, but the changes made by the WEQ EC are inconsistent with the REQ standards. The resolution asks the WEQ EC to reconsider whether or not those changes should have been made. Ms. McQuade noted that there was confusion in the WEQ EC as to how the recommendation form was to be used. The WEQ EC inadvertently moved a section of the recommendation, thought to be administrative, to a part of the recommendation, which had the same effect as deleting it. Mr. Kruse asked if it was necessary for this resolution to come from the board, rather than from the WEQ EC's own motion. Mr. Desselle stated that the board should convey the message that there should be consistency between the two quadrants. The board also wants to ensure that where the EC deviates from the subcommittee's recommendation, which can be technical, they understand the implication of that change.

The Board Resolution passed unanimously.

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5. Smart Grid Updates

Mr. Zhou provided a power point presentation on the NAESB efforts for PAP03, PAP04, PAP09 and PAP10. Mr. Desselle noted that the PAP10 effort will occur in a separate subcommittee, which will be populated with NAESB members and any of the organizations that have been participating in the smart grid efforts. It is a unique arrangement and collaboration with various other organizations. He encouraged EC members to participate and maintain awareness of this work effort.

6. Updates on Specific Efforts

Publications: Ms. McQuade provided an update of the NAESB publication schedule. WEQ Version 2.2 will be published in the July-August time frame and will include the smart grid and NITS standards currently under development. The Retail Quadrant has scheduled Version 1.3 to be published in first quarter 2011 and the WGQ is scheduled to publish Version 2.0 in November 2010.

WEQ, Update on FERC Order No. 890 efforts: Ms. York provided an update on the Order No. 890 efforts. The OASIS subcommittee just released its draft standards for NITS for informal comments, due July 12. The subcommittee will review the comments received. In addition, the WEQ EC established a task force to develop the work scope for Systems Across Multiple Transmission Services (SAMTS). The task force has completed a draft scope that will be presented to the EC for approval. Afterwards, it will be sent to the subcommittee for standards drafting. This work will likely begin in August. The completion of the scope is timely, as NAESB will be filing a progress report to the FERC on this item next week.

WEQ/Retail Electric, Update on Demand Response and Demand Side Management: Mr. True provided an update of the DR and DSM activities. The retail demand response work group is working on completing its phase 2 efforts. The work group has continued to review the formal comments from the first phase of standards development. Once that effort is completed, the work will be sent out for an informal comment period prior to consideration by the DSM-EE subcommittee. The retail and wholesale demand response glossaries will be compared against each other to ensure consistency.

The retail energy efficiency group has been considering phasing the standards development in a manner similar to the demand response work. That work group is finalizing the scope of their work product.

The wholesale demand response work group created three task forces (glossary, model business practices and performance evaluation methods) to accomplish this work. The glossary task force has reviewed and synchronized the wholesale and retail demand response glossary terms and presented their work product to the wholesale demand response work group. The Performance Evaluation sub-working group has met, via conference call, to discuss the performance evaluation methodologies found in the IRC Matrix. Individual participants have volunteered to review their selected baseline methodology, and come back to the group with suggested changes to the performance evaluation method. At this point, the group does not have finalized changes that they would propose to the DSM Working Group-Wholesale Standards. The Model Business Practice sub-working group has met several times to review the language in the model business practices. Marie Pieniazek created a revision table to track versioning of the standards and is reviewing the Capacity section to review and revise language. Ms. Pratt is reviewing the Regulation section for the same and Mr. True is reviewing and revising the Energy section.

On April 15, 2010, the FERC issued its final rule and adopted the WEQ Phase 1 DR M&V standards. In the final rule, the FERC noted that NAESB was best suited to develop the Phase 2 DR M&V standards and noted, "additional substantive standards would appear beneficial in creating transparent and consistent measurement and verification of demand response products and services in wholesale electric markets. The measurement and verification standards needed to accomplish this goal should be a focus of NAESB's Phase II M&V Standards development efforts." The FERC also set a one-year deadline to either complete the Phase 2 standards or report the progress made in the Phase 2 efforts.

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RFP Status for the Electric Industry Registry: Ms. McQuade noted that NAESB put out an RFP seeking an administrator for the Electric Industry Registry (EIR). The RFP was distributed on February 22, 2010 and proposals were due to NAESB by May 21, 2010. The goal is to have the registry moved to NAESB by the end of the year.

7. 2010 Executive Committee Reports

Mr. Buccigross reviewed the 2010 WGQ Annual Plan; Ms. McQuade reviewed the 2010 Retail Annual Plan; and Ms. York reviewed the 2010 WEQ Annual Plan. Mr. Desselle moved to adopt the Annual Plans as reviewed and Ms. Crockett seconded the motion. The motion passed a simple majority vote.

8. Plan for September 2010 Board Meeting

Ms. McQuade noted that the September 23, 2010 Board meeting will be held in Houston, Texas and asked the participants to submit any agenda items they wish to discuss during the meeting to the NAESB office. She also noted that the September Board meeting will be the strategic session for 2011. She also noted that Sandia National Labs would be presenting at the meeting on how the emerging smart grid impacts upstream and midstream natural gas operations. The 2010 Board meeting schedule can be found through the following link: http://www.naesb.org/misc/2010_schedule.doc.

9. Old and New Business

Ms. McQuade stated that several Managing Committee officers have met with the FERC commissioners, as well as NARUC, to discuss smart grid, demand response, energy efficiency, e-Tariff and FERC Order No. 890. They have also met with the CEOs of ISO New England and New York ISO to bring them up to date on NAESB's smart grid and demand response efforts.

10. Adjourn

The meeting adjourned at 11:26 a.m. Central.

12. Board Attendance and Voting Record (Vacancies Omitted)

WGQ PRODUCERS SEGMENT		**ATTENDANCE**
Richard D. Smith	Regulatory & Compliance Manager, Noble Energy Inc.	
Mark Stultz	Vice President – Policy and Regulatory Affairs, US America Gas and Power, BP Energy Company	
Keith Sappenfield	Regional Director – US Regulatory Affairs, EnCana Oil & Gas (USA), Inc.	Phone
Randy E. Parker	Global Regulatory Advisor, ExxonMobil Gas and Power Marketing Company	
Pete Frost	Director – Regulatory Affairs, ConocoPhillips Gas and Power Marketing	
WGQ PIPELINE SEGMENT		
Cathie Legge	Manager – Customer Service, Alliance Pipeline, LP	In Person
Bill Grygar	Vice President, Panhandle Eastern Pipe Line	
Susanna B. Barry	Vice President – Commercial Operations, Tennessee Gas Pipeline Company	Phone
Randy Young	Vice President – Regulatory Compliance and Corporate Services, Boardwalk Pipeline Partners, LP	In Person
Richard Kruse	Senior Vice President, Spectra Energy Transmission	
WGQ LOCAL DISTRIBUTION COMPANY (LDC) SEGMENT		
Craig Colombo	Energy Trader III, Dominion Resources	In Person
Adrian Chapman	Vice President – Regulatory Affairs & Energy Acquisition, Washington	Phone

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12. Board Attendance and Voting Record (Vacancies Omitted)

	Gas	
Mike Novak	Asst. General Manager, National Fuel Gas Distribution Corporation	Phone
Lee Stewart	Senior Vice President, Gas Transmission, Southern California Gas Company	Phone
WGQ END USERS SEGMENT		
Valerie Crockett	Senior Program Manager – Energy Markets & Policy, Tennessee Valley Authority	In Person
Timothy W. Gerrish	Director of Origination-Energy Marketing and Trading, Florida Power & Light	In Person
Tina Burnett	Natural Gas Resources Administrator, The Boeing Company	
Lori-Lynn C. Pennock	Senior Fuel Supply Analyst, Salt River Project	In Person
Jim Templeton	Principal, Comprehensive Energy Services	In Person
WGQ SERVICES SEGMENT		
Rusty Braziel	Managing Director, Bentek Energy, LLC	In Person
Marty Patterson	Senior Vice President Commercial Services, American Midstream Partners, LP	Phone
Paul Kahler	Midstream Regulatory Advisor, Cenovus Energy Inc.	
Lori Leeder	Relationship Manager/Business Development – Asset Optimization, Vega Energy Partners, Ltd	In Person
REQ SERVICE PROVIDERS/SUPPLIERS SEGMENT		
Wendell Miyaji	Senior Director – Systems, Comverge, Inc.	In Person
Jim Minneman	Controller, PPL Solutions LLC	Phone
J Cade Burks	Executive Vice President of ista	In Person
Austin Morris	Managing Partner – Energy, SunGard Consulting Services, LLC	
REQ UTILITIES SEGMENT		
David Koogler	Director – State Regulation, Dominion Virginia Power	Phone
Dennis Derricks	Director Regulatory Policy and Analysis, Wisconsin Public Service Corporation	
Ruth Kiselewich	Director – Demand Side Management Programs, Baltimore Gas & Electric Company	Phone
Debbie McKeever	Market Advocate, Oncor	In Person
REQ END USERS/PUBLIC AGENCIES SEGMENT		
James P. Cargas	Senior Assistant City Attorney, City of Houston	In Person

WEQ TRANSMISSION SEGMENT		**SUBSEGMENT**	
Dan Klempel	Director Transmission Regulatory Compliance, Basin Electric Power Cooperative	Muni/Coop	
Chuck Feagans	Senior Manager, Reliability Policy, Tennessee Valley Authority	Fed/State/Prov.	Phone
John E. Lucas	Director – Transmission Policy and Services, Southern Company Transmission	IOU	In Person

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12. Board Attendance and Voting Record (Vacancies Omitted)

Jill Horswell	Director Transmission, Southern California Edison	at large	In Person
Edward J. Davis	Policy Consultant, Entergy Services, Inc.	at large	
WEQ GENERATION SEGMENT			
Douglas L. Curry	Administrator and CEO, Lincoln Electric System	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
Wayne Moore	Regulatory Affairs & Energy Policy Director and Compliance Officer – Generation, Southern Company Services, Inc.	IOU	In Person
Gloria Godson	Vice President Energy Policy, Conectiv Energy Supply, Inc.	Merchant	
Shah Hossain	Senior Regulatory Specialist, Westar Energy, Inc.	at large	Phone
WEQ MARKETERS/BROKERS SEGMENT			
Roy True	Manager of Regulatory and Market Affairs, ACES Power Marketing	Muni/Coop	Phone
Jeff Ackerman	Manager – Colorado River Storage Project Energy Management and Marketing Office, Western Area Power Administration	Fed/State/Prov.	In Person
Gavin Cunningham	Manager – FirstEnergy Solutions Corp.	at large	
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	
WEQ DISTRIBUTION/LOAD SERVING ENTITIES (LSE) SEGMENT			
Arthur G. Fusco	Vice President and General Counsel, Central Electric Power Cooperative Inc.	Muni/Coop	Phone
Paul McCurley	Manager – Power Supply, National Rural Electric Cooperative Association	Muni/Coop	
Nelson Peeler	Vice President System Operations, Duke Energy	IOU	In Person
Joe Hartsoe	Managing Director – Federal Policy, American Electric Power Service Corp.	at large	Phone
Bruce Ellsworth	New York State Reliability Council	At-Large	In Person
WEQ END USERS SEGMENT			
Jesse D. Hurley	Chief Executive Officer, Shift Research, LLC	at large	In Person
Aaron Breidenbaugh	Senior Manager – Regulatory Affairs and Public Policy – New York, EnerNOC, Inc.	at large	
Thomas G. Dvorsky	Director of the Office of Electricity, Gas, and Water at the New York State Department of Public Service, rep.	Regulator	

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12. Board Attendance and Voting Record (Vacancies Omitted)

	National Association of Regulatory Utility Commissioners		
Marie Pieniazek	Consultant, Rep: Energy Curtailment Specialists, Inc.	at large	Phone
Rick Lentz	Fellow with SunGard	at large	In Person
Michehl Gent	Open Access Technology International, Inc.	At-Large	In Person
WEQ INDEPENDENT GRID OPERATORS/PLANNERS			
Michael Desselle	Vice President Process Integrity, Southwest Power Pool		In Person
Kent Saathoff	Vice President of System Operations, ERCOT		
Kevin Kirby	Vice President Market Operations, ISO New England, Inc.		Phone
Rana Mukerji	Vice President Market Structures, New York Independent System Operator, Inc. (NYISO)		Phone
Andy Ott	Senior Vice President Marketing, PJM Interconnection, LLC		In Person
Bill Phillips	Vice President Standards Compliance & Strategy, Midwest ISO (MISO)		Phone
Peter Sergejewich	Director of Corporate Planning, Independent Electricity System Operator (IESO)		Phone
WEQ TECHNOLOGY AND SERVICES			
Jim Buccigross	Vice President Energy Industry Practice, 8760 Inc.		Phone
Laurent M. Liscia	Executive Director, Organization for the Advancement of Structured Information Standards (OASIS)		
David A. Wollman	Leader, Smart Grid Team – Standards and Electrical Metrology Groups, National Institute of Standards and Technology (NIST)		Phone
RGQ SERVICE PROVIDERS/SUPPLIERS SEGMENT			
Leigh Spangler	President, Latitude Technologies Inc.		
Rick Vogel	Vice President – Sales and Natural Gas Operations, Sierra Southwest Cooperative Services, Inc.		
Dave Darnell	President & CEO, Systrends USA		
Greg Lander	President, Capacity Center		
RGQ DISTRIBUTORS SEGMENT			
Alonzo Weaver	Vice President of Engineering and Operations, Memphis Light, Gas & Water Division (APGA)		
Ralph Cleveland	Senior Vice President – Engineering and Operations, AGL Resources, Inc.		
RGQ END USERS/PUBLIC AGENCIES SEGMENT			

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13. Other Attendance

Name	Organization	Attendance
Jonathan Booe	NAESB	In Person
Bill Boswell	NAESB	In Person
Kathryn Burch	Spectra Energy Transmission	In Person
Christopher Burden	Williams Gas Pipeline	Phone
Cory Cummings	NAESB	In Person
Dale Davis	Williams Gas Pipeline	In Person
Bob Gee	Gee Strategies	In Person
Mark Gracey	El Paso Gas Pipeline Company	In Person
Bill Griffith	El Paso Natural Gas	In Person
Alan Johnson	NRG Energy	Phone
Susan Munson	ERCOT	In Person
Rae McQuade	NAESB	In Person
Joelle Ogg	Brunenkant Law Firm, LLP	In Person
Phil Precht	Baltimore Gas and Electric	Phone
Alan Pritchard	Duke Energy	Phone
Denise Rager	NAESB	In Person
Veronica Thomason	NAESB	In Person
Kim Van Pelt	Panhandle Eastern Pipeline	In Person
Jill Vaughn	Preferred Legal Services	In Person
Darla Wishart	NAESB	In Person
Charles Yeung	SPP	In Person
Kathy York	Tennessee Valley Authority	In Person
Randy Young	Boardwalk Pipeline Partners	In Person
Joe Zhou	Xtensible Solutions	In Person

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via posting

TO:	NAESB Board Critical Infrastructure Committee Members and posting for Interested Industry Parties
FROM:	Jonathan Booe, NAESB Counsel
RE:	Meeting Notes for the NAESB Board Critical Infrastructure Committee
DATE:	July 19, 2010

Dear Critical Infrastructure Committee Members,

A Critical Infrastructure Committee conference call was held on July 19, 2010. The meeting was called to order at 1:00 pm C. Mr. Burks presided over the meeting and Mr. Booe served as counsel for the meeting. The notes below serve as a record for the meeting.

Notes for the July 19, 2010 NAESB Board Critical Infrastructure Meeting

Administrative: Mr. Burks welcomed the participants to conference call and thanked them for attending. Mr. Booe provided the antitrust guidance. The draft agenda was reviewed. Ms. Crockett made a motion to adopt the agenda as drafted and Mr. Spangler seconded the motion. The motion passed without opposition.

Discussion of Topics for Strategic Planning Session

Mr. Hurley provided a review of the status of the Draft Lieberman Senate Bill (Senate Bill S. 3480) and the Draft Harman House of Representatives Bill (House Bill H.R. 5548). Ms. McQuade noted that the Lieberman Bill is expected to be considered in September and that the Harmon Bill has been changed to look very similar to the Senate Bill. Mr. Burks suggested that the Committee ask Mr. Hurley to provide a 10 minute overview of the Lieberman Bill during the upcoming NAESB Board Strategic Session. The participants supported his recommendation. Mr. Burks also suggested that each Quadrant review the Bill and produce a report addressing the potential affects the Bill may have on NAESB. Mr. Hurley stated that he predicts that the Bill has a 50% chance of passing depending on the priority it receives from the Administration. He also noted that it has been rumored that the Lieberman Bill may be merged with the Rockefeller-Snowe Bill and become an omnibus bill with ample funding. Currently the Bill gives the Department of Homeland Security (DHS) control of the budget. Mr. Gallagher noted that the Bill significantly alters the way the electric industry interacts with NERC and that a coalition was formed by the industry to get lobbyists involved in the development. Ms. McQuade noted that it would be beneficial if the Bill gave direction to work with existing standards organizations. Mr. Hurley stated that the Bill only references NIST. Mr. Hurley stated that if NAESB could produce a set of talking points supporting the organizations position and offering constructive solutions that he would discuss the key points with his contacts in Washington D.C. Ms. McQuade asked Ms. Ogg for her impressions of the activity in Washington surrounding the Bill. Ms. Ogg stated that there is not currently much discussion of the Bill as it is very complicated and does not offer a popular sound byte. She also stated that she would work with Ms. McQuade and Mr. Hurley on the NAESB talking points. Mr. Burkes also volunteered to help. Ms. McQuade asked Mr. Gallagher for assistance on the talking points and he agreed.

Mr. Hurley noted that some of the cyber security issues may be turning to the natural gas industry very soon. Mr. Griffith stated that INGAA formed a group to review the Bill a week prior and that he will provide a report of the results. Ms. McQuade suggested that someone contact the AGA and advise the same action. Mr. Hurley asked if Ms. McQuade had any issues with sharing the talking points with the US Telecom Association. She stated that she did not.

Discussion of Senate and House Bills

Mr. Hurley provided additional detail concerning the Lieberman Bill and noting that the Bill structurally organizes all aspects of national cyber security, both offense and defense, through the National Cyber security Center (NCC) and that all standards will be developed in coordination with NIST. He state that the Bill offers no funding for compliance and that reliance on foreign software and hardware will be forbidden. Mr. Burkes asked what the estimated cost will be for compliance and Mr. Hurley responded that it is still undetermined.

Other Business/Next Meeting and

There were four action items discussed at the meeting:

1) NAESB office to distribute to Lieberman Bill to EC Chairs and Vice Chairs for review
2) Ms. McQuade, Ms. Ogg, Mr. Hurley, Mr. Burkes and Mr. Gallagher to develop talking points

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Notes for the July 19, 2010 NAESB Board Critical Infrastructure Meeting

Action Items:

describing how NAESB can support the Lieberman Bill and how it affects NAESB.

3) Mr. Hurley to provide a 10 minute overview of the Lieberman Bill for the September Board Strategic Session
4) Mr. Griffith to provide a report of the INGAA review of the Lieberman Bill.

Mr. Burke stated that during the next meeting the participants can discuss the results of the action items and discuss the status of the NISTIR. Mr. Hurley noted that his company is going to seek approval of NAESB as a PKI certifier.

Adjourn: Ms. Crockett moved to adjourn the meeting at 2:02 pm Central.

Work Papers Provided for the Meeting:

Meeting Related Documents:

Draft Lieberman Senate Bill (Senate Bill S. 3480): http://assets.fiercemarkets.com/public/sites/govit/liebermancarper.pdf

Draft Harman House of Representatives Bill (House Bill H.R. 5548): http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=111_cong_bills&docid=f:h5548ih.txt.pdf

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Notes for the July 19, 2010 NAESB Board Critical Infrastructure Meeting

CRITICAL INFRASTRUCTURE COMMITTEE MEMBERS

Name	Organization	Attendance
Jim Buccigross	8760, Inc.	
Ralph Cleveland	AGL Resources, Inc.	
Joelle Ogg	Brunenkant & Cross, LP	Phone
Chris Eisenbrey	Edison Electric Institute	
Bob Gee	Gee Strategies Group	
J. Cade Burks	ista	Phone
Leigh Spangler	Latitude Technologies	Phone
Paul McCurley	NRECA	Phone
Bill Boswell	NAESB General Counsel	
Rick Smead	Navigant Consulting, Inc.	
Diane Barney	New York State Department of Public Service Staff	
Bruce Ellsworth	New York State Reliability Council	
Michehl Gent	Open Access Technology International, Inc	
Chris Kotting	Public Utilities Commission of Ohio	
Thomas Pearce	Public Utilities Commission of Ohio	
Jesse D. Hurley	Shift Research, LLC	Phone
Michael Desselle	Southwest Power Pool	
Dave Darnell	Systrends USA	
Susanna B. Barry	Tennessee Gas Pipeline Company	
Chuck Feagans	Tennessee Valley Authority	Phone
Valerie Crockett	Tennessee Valley Authority	Phone
Christopher Freitas	US Department of Energy	
Brett Perlman	Vector Consultants	
William Gallagher	Vermont Public Power Supply Authority	Phone

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Notes for the July 19, 2010 NAESB Board Critical Infrastructure Meeting

OTHER ATTENDEES

Attendee	Organization
Ron Tomlinson	Dominion
Ed Davis	Entergy
Bill Griffith	El Paso
Peter Sergejewich	IESO
Ed Skiba	Midwest ISO
Jonathan Booe	NAESB
Rae McQuade	NAESB
Kathy York	TVA

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NORTH AMERICAN ENERGY STANDARDS BOARD

2010 Annual Plan for the Wholesale Gas Quadrant as Approved by the Board of Directors on June 24, 2010

Item Description	Completion[1]	Assignment[2]
1. Gas-Electric Interdependency		
Respond to directives of FERC Order No. 698 issued 6-25-07, Docket Nos. RM05-5-001 and RM96-1-027 as related to the NAESB reports submitted in Docket No. RM05-28-000:		
a. Provide for Enhanced Granularity for Public Utilities in Identifying Critical Operational Flow Orders. (R08020) Status: Completed	4th Q, 2009	BPS, IR/Tech jointly with WEQ BPS
2. Promotion of a More Efficient Capacity Release Market		
Review FERC Order Nos. 712 and 712A and modify NAESB standards as appropriate (Docket Nos. RM08-1-000, RM08-1-001).		
a. Review recent FERC order on flow-through of Discounted or Negotiated Rates (Docket No. RP09-70 et al, October 15, 2009) and develop business practice standards as appropriate Status: Completed, No Standards Needed.	2nd Q, 2010	BPS/Interpretations
3. Capacity Release EDI Review		
Review capacity release transactions upload and related responses to determine suitability for EDI		
a. Develop Business Practice Standards as appropriate Status: Underway	3rd Q, 2010	BPS
b. Prepare fully staffed recommendation Status: Underway	3rd Q, 2010	BPS, IR/Technical
4. Customer Security Administration		
Review and develop standards as appropriate to support Customer Security Administration Standards (Comment Submittal, 10-29-07, R08008) Status: Underway	3rd Q, 2010	BPS, IR/Technical, EDM
5. Electronic Delivery Mechanisms		
Review minimum technical characteristics in Appendices B, C, and D of the WGQ QEDM Manual, and make changes as appropriate. Status: Completed	2nd Q, 2010	EDM
6. FERC Strategic Plan FY2009-2014		
a. For the FERC Strategic Plan, under the section "Promote efficient design and operation of natural gas facilities", review and develop standards as needed to support EBB posting requirements regarding waste heat feasibility (NAESB Standard No. 4.2.23) Status: Completed	2nd Q, 2010	BPS, IR/Technical

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NORTH AMERICAN ENERGY STANDARDS BOARD

2010 Annual Plan for the Wholesale Gas Quadrant as Approved by the Board of Directors on June 24, 2010

	Item Description	Completion[1]	Assignment[2]
7.	**Common Codes**		
a.	Review common code specifications for common location codes and determine if changes are necessary to the existing specifications to support both intrastate and interstate pipelines Status: Not Started	4th Q, 2010	BPS
	Program of Standards Maintenance & Fully Staffed Standards Work		
	Business Practice Requests	Ongoing	Assigned by the EC[3]
	Continue review against plan for migration to ANSI ASC X12 new versions as needed and coordinate such activities with DISA.	Ongoing	ANSI X12 Subcommittee
	Information Requirements and Technical Mapping of Business Practices	Ongoing	Assigned by the EC[3]
	Interpretations for Clarifying Language Ambiguities	Ongoing	Assigned by the EC[3]
	Maintenance of Code Values and Other Technical Matters	Ongoing	Assigned by the EC[3]
	Maintenance of Contracts Standards	As Requested	Contracts Subcommittee
	Maintenance of eTariff Standards	As Requested	Assigned by the EC[3]
	Provisional Activities		
1	Review and develop standards as needed, related to Docket No. RM09-2-000, (Contract Reporting Requirements of Intrastate Natural Gas Companies).		
2	Review and develop standards as needed related to the FERC Strategic Plan 2009-2014		

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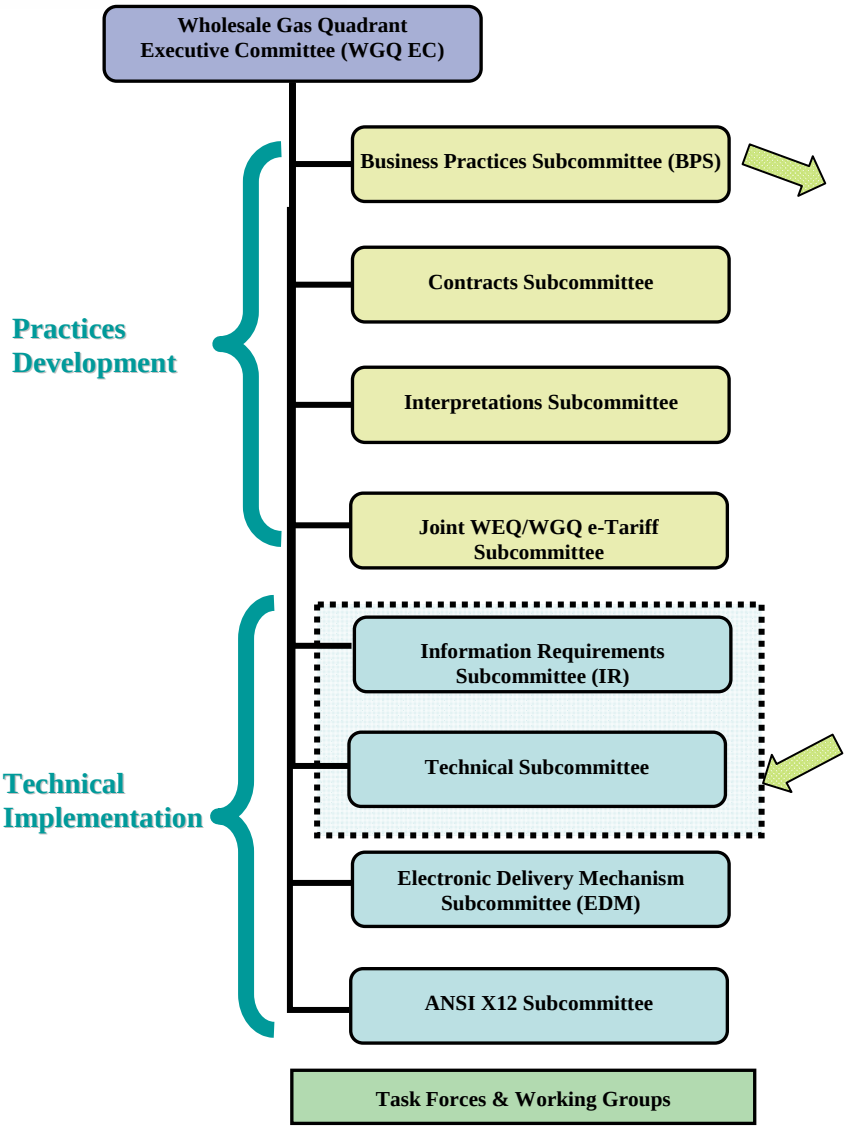

The translation of business practices to usable uniform business transactions is accomplished through the definition of information requirements for the data, and mapping of that data into specific electronic transactions. This translation is performed by IR and Technical subcommittees and completes 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 2010 WGQ EC and Subcommittee Leadership:

Executive Committee: Jim Buccigross, Chair and Dale Davis, Vice-Chair
Business Practices Subcommittee: Kim Van Pelt, Valerie Crockett, Mike Novak and Richard Smith
Information Requirements Subcommittee: Dale Davis
Technical Subcommittee: Mike Stender, Kim Van Pelt
Contracts Subcommittee: Keith Sappenfield
Electronic Delivery Mechanism Subcommittee: Leigh Spangler, Christopher Burden
Interpretations Subcommittee: Paul Love
Joint WEQ/WGQ e-Tariff Subcommittee: Keith Sappenfield, Jane Daly

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End Notes, WGQ 2010 Annual Plan:

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

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

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

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NORTH AMERICAN ENERGY STANDARDS BOARD
2010 ANNUAL PLAN for the RETAIL GAS and ELECTRIC QUADRANTS
As Approved by the NAESB Board of Directors on June 24, 2010

	Item Number & Description[1]	Completion[2]	Assignment[34]
1.	Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 10: Customer Enrollment, Drop and Account Information Change		
a..	For the Distribution Company Registration Model Registration Agent Model Status: Not Started	4th Q, 2010	TEIS
2.	Develop NAESB Certification checklist criteria for Retail Quadrants to be used in the NAESB Certification Program. The certification checklist may address test scripts, a checklist of items to be tested, data connectivity for test scripts and EDM testing. Status: Not Started. Dependent upon publication of Version 2.0 at a minimum, but more dependent upon completion of Customer Choice efforts, expected 1st Q 2011 at the earliest.	2011	Ad Hoc EC Certification Group
3.	**Review and develop business practices standards to Demand Response, Demand Side Management and Energy Efficiency Programs** Review and develop needed model business practices for a standardized method for quantifying benefits, savings, cost avoidance and/or the reduction in energy demand and usage derived from the implementation of demand side management and energy efficiency programs. This effort will include demand side response, energy efficiency programs and metering, including the 'curtailment service provider' program. The wholesale and retail demand response work groups and the Smart Grid Standards Subcommittees should actively and timely communicate and coordinate work products to ensure consistency between the three work groups. Each work group should take into account the work products developed by the other.		
a.	Develop glossary for business practice standards Status: Ongoing	Ongoing	Joint WEQ/REQ DSM Subcommittee
b.	Develop business practice standards used to measure and verify reductions in energy and demand from energy efficiency in wholesale and retail markets.[5] This includes developing business practice standards to measure and verify energy reductions that are made to comply with a Renewable Portfolio Standard that included energy efficiency or a stand-alone Energy Efficiency Portfolio Standard. Status: Underway	4th Q, 2010	Joint WEQ/REQ DSM-EE Subcommittee
c.	Support the second phase of retail development of model business practice standards for demand response programs Status: Underway	3rd Q, 2010	REQ Section of the Joint WEQ/REQ DSM Subcommittee
d.	Create common interfaces and data structures necessary for enrolling DR sites into a DR program (Request No. R10002) Status: Not Started	4th Q, 2010	Joint WEQ/REQ DSM Subcommittee with coordination with Smart Grid Standards Task Force and REQ BPS
4.	Billing and Payments		
a.	Develop Process Flows to be included as models in Book 3 – Billing and Payments Status: Completed	2nd Q, 2010	BPS
b.	If the development of Process Flows indicate a gap in the model business practices, then develop new model business practices to address the gap. Status: Completed	2nd Q, 2010	BPS

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	Item Number & Description[1]	Completion[2]	Assignment[34]
5.	Model Business Practices User Guide Add a new section to Book 0 to describe what Books have been developed, how the Books are laid out, and revised the title of the Book to reflect the additions Status: Underway	3rd Q, 2010	BPS
6.	Additional Registration Agent Processes		
	a. Review all existing Model Business Practices to determine if the Customer Information process is already covered, and if necessary develop any new Model Business Practices required Status: Completed	1st Q, 2010	BPS
	b. Review all existing Model Business Practices to determine if the disconnection and reconnection process is already covered, and if necessary develop any new Model Business Practices required. Status: Completed		
	i. Create MBPs for disconnection/reconnection initiated by the supplier Status: Completed	4th Q, 2009	BPS
	ii. Create MBPs for disconnection/reconnection initiated by the distribution company Status: Completed	4th Q, 2009	BPS
	c. Review all existing Model Business Practices to determine if there are other Registration Agent Model processes not covered, and develop a prioritized list of those processes, if any. Status: Underway	3rd Q, 2010	BPS
	d. Develop Model Business Practices and Process Flows for those Registration Agent Model processes on the prioritized list developed in (c) above, if any. Status: Underway	4th Q, 2010	BPS
	e. Develop Technical Electronic Implementation Standards and Data Dictionaries to support Model Business Practices of Book 14 – Service Requests, Disconnections and Reconnections in the registration Agent Model Status: Underway	4th Q, 2010	IR/TEIS
	f. Develop Technical Electronic Implementation Standards and Data Dictionaries to support any Model Business Practices developed in (d) above Status: Underway	4th Q, 2010	IR/TEIS
7.	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. Status: Not Started	4th Q, 2010	BPS

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	Item Number & Description[1]	Completion[2]	Assignment[34]
8.	Supplier Marketing Practices Develop Model Business Practices providing for a "Consumer Disclosure Statement" to be presented to residential and small commercial customers describing the Supplier's service offering and related contract provisions. This statement would also identify how certain Supplier-Customer interactions are conducted. Amongst the topics to be considered for inclusion on the statement would be the following: • the most important terms of the Supplier agreement, such as the contract's term and termination fee provisions; • training and identification of Supplier marketing representatives; • protocols for Supplier in-person and telephone contacts with customers; • added measures for protecting non-English speaking customers; and • Processes for handling customer complaints and resolving disputes arising from Supplier marketing activities. Status: Underway	4th Q, 2010	BPS
9.	Develop Smart Grid Wholesale and Retail Electric Standards		
	a. Develop Requirements and Use Cases for PAP 03 – Pricing Model		
	i. Phase 1 Status: Completed	1st Q, 2010	Joint WEQ/REQ SGS Subcommittee
	ii. Phase 2 Status: Underway	3rd Q, 2010	Joint WEQ/REQ SGS Subcommittee
	b. Develop Requirements and Use Cases for PAP 04 – Scheduling Model		
	i. Phase 1 Status: Completed	1st Q, 2010	Joint WEQ/REQ SGS Subcommittee
	ii. Phase 2 Status: Underway	3rd Q, 2010	Joint WEQ/REQ SGS Subcommittee
	c. Develop Requirements and Use Cases for PAP 09 – Demand Response/Distributed Energy Resources		
	i. Phase 1 Status: Completed	1st Q, 2010	REQ Section of the Joint WEQ/REQ SGS Subcommittee
	ii. Phase 2 Status: Underway	3rd Q, 2010	REQ Section of the Joint WEQ/REQ SGS Subcommittee

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	Item Number & Description[1]	Completion[2]	Assignment[34]
	d. Develop standards to support PAP 10 – Standards Energy Usage Information		
	i. Act as a convener (develop and implement a plan to expedite harmonized standards development and adoption within the associated standards bodies) and develop business practice standards as needed and assigned to NAESB for PAP 10 – Standard Energy Usage Information Status: Completed	2nd Q, 2010	Joint WEQ/REQ PAP 10 SGS Subcommittee
	ii. Develop Information Model and related business practices Status: Underway	4th Q, 2010	Joint WEQ/REQ PAP 10 SGS Subcommittee
10.	Reserved (Items added under action item 6)		
11.	Master List of Defined Terms: Review the definitions of all Defined Terms in Book 0 – Master List of Defined Terms, including other Ratified Terms not yet published, and revise the definitions of all Defined Terms not specifically related solely to the competitive marketplace to broaden their applicability to conform to NAESB's expanded scope. Status: Underway	3rd Q, 2010	Glossary

Program of Standards Maintenance & Fully Staffed Standards Work[6]

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:

Modify TPA as necessary.

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

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

Retail Electric Quadrant Effort Only:

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

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

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

Retail Gas Quadrant Effort Only:

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Item Number & Description[1]	Completion[2]	Assignment[34]
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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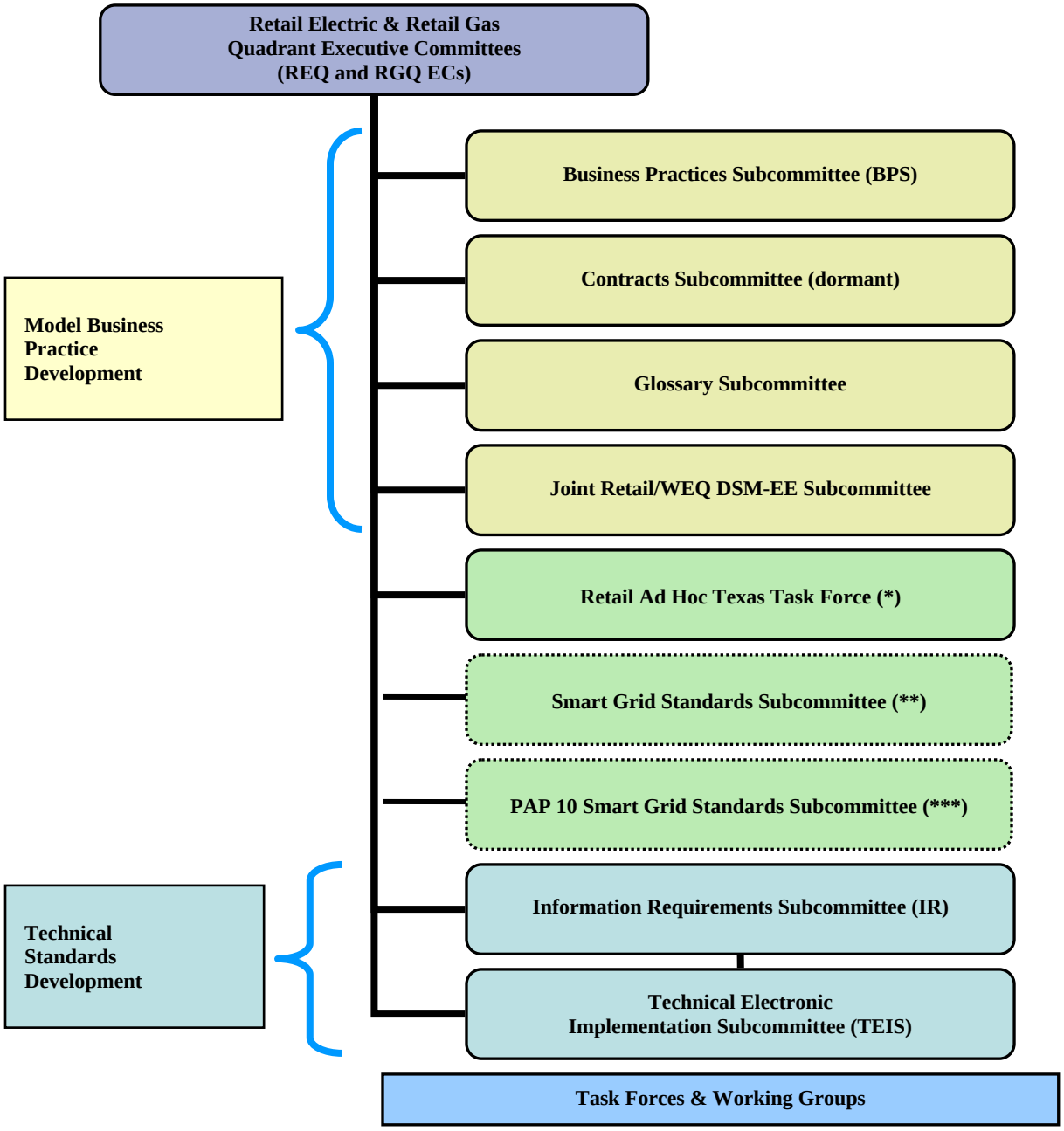

NAESB Retail Subcommittee Leadership: [7]

Executive Committee: Mike Novak, Chair (RGQ), Phil Precht, Chair (REQ)
Business Practices Subcommittee: Phil Precht (RGQ), Dan Jones (REQ)
Information Requirements Subcommittee: Jennifer Teel (REQ)
Technical Electronic Implementation Subcommittee: TBD

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Glossary Subcommittee: Patrick Eynon (REQ)
DSM-EE Subcommittee: Ruth Kiselewich, David Koogler (REQ), Roy True (WEQ), and Paul Wattles (WEQ)
Retail Ad Hoc Texas Task Force: Debbie McKeever (REQ) and Susan Munson (REQ)

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

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

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

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Retail 2010 Annual Plan End Notes:

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

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

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

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

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

[6] 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.

[7] 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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July 8, 2010
Filed Electronically

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

RE: NAESB Progress Report on Standards Development to Support Coordination of Requests for Transmission Service Across Multiple Transmission Systems (Docket No. RM05-5-013, Order No. 676-E)

Dear Ms. Bose:

The North American Energy Standards Board ("NAESB") herewith submits this status report on NAESB standards development in support of coordination of requests for transmission service across multiple transmission systems, in response to the final rule for "Standards for Business Practices and Communication Protocols for Public Utilities," (Docket No. RM05-5-013, Order No. 676-E), issued by the Federal Energy Regulatory Commission ("FERC" or "Commission") on November 24, 2009. The status report describes the actions that have taken place to date, and the plans going forward related to the development in support of coordination of requests for transmission service across multiple transmission systems. It is expected that these standards will be included in the NAESB OASIS standards (WEQ-001, WEQ-002, WEQ-003, and WEQ-013).

The report is being filed electronically in Microsoft® Word® 2003 and in Adobe Acrobat® Portable Document Format (.pdf). The report is also available on the NAESB web site (www.naesb.org). Please feel free to call me at (713) 356-0060 or refer to the NAESB website (www.naesb.org) should you have any questions or need additional information regarding NAESB work products.

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

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July 8, 2010

cc: Chairman Jon Wellinghoff, Federal Energy Regulatory Commission
Commissioner Philip D. Moeller, Federal Energy Regulatory Commission
Commissioner John R. Norris, Federal Energy Regulatory Commission
Commissioner Marc Spitzer, Federal Energy Regulatory Commission
Commissioner Cheryl LaFleur, Federal Energy Regulatory Commission

Mr. Thomas R. Sheets, General Counsel of the Commission, Federal Energy Regulatory Commission
Mr. Joseph McClelland, Director, Office of Electric Reliability, Federal Energy Regulatory Commission
Ms. Jamie L. Simler, Director, Office of Energy Policy and Innovation, Federal Energy Regulatory Commission

Mr. Michael Goldenberg, Senior Attorney, Office of General Counsel, Federal Energy Regulatory Commission
Mr. Mason Emnett, Senior Legal Advisor, Office of Energy Policy and Innovation, Federal Energy Regulatory Commission
Mr. William E. Murrell, Deputy Director, Division of Economic and Technical Analysis, Office of Energy Policy and Innovation, Federal Energy Regulatory Commission

Mr. Ralph Cleveland, Chairman and CEO, North American Energy Standards Board
Mr. William P. Boswell, General Counsel, North American Energy Standards Board
Mr. Michael D. Desselle, Vice Chairman – WEQ, North American Energy Standards Board
Ms. Kathy York, Chairman WEQ Executive Committee, North American Energy Standards Board

Mr. David Cook, General Counsel, North American Electric Reliability Corporation
Mr. Andrew Rodriquez, North American Electric Reliability Corporation

UNITED STATES OF AMERICA

FEDERAL ENERGY REGULATORY COMMISSION

Standards for Business Practices	**)**	**Docket No. RM05-5-013**
and Communication Protocols for	**)**	
Public Utilities	**)**	

STATUS REPORT OF THE NORTH AMERICAN ENERGY STANDARDS BOARD

The North American Energy Standards Board ("NAESB") is pleased to provide this status report in response to the Federal Energy Regulatory Commission's ("FERC" or the "Commission") Final Rule on Standards for Business Practices and Communication Protocols for Public Utilities ((Docket No. RM05-5-013; Order No. 676-E).[1]

On February 2, 2010, the Wholesale Electric Quadrant Executive Committee ("EC") formed a scoping task force[2] and directed the task force to define a scope of work for the OASIS Subcommittee regarding standards development for the coordination of requests for transmission service across multiple transmission systems ("SAMTS"). The OASIS Subcommittee is scheduled to begin the work on the SAMTS standards at the conclusion of its efforts to develop standards for network integration transmission service ("NITS"), which will be included in NAESB Standard Nos. WEQ-001, WEQ-002, WEQ-003, WEQ -013. The OASIS Subcommittee is scheduled to complete the NITS standards[3] in August of this year, after which it will begin the work on the SAMTS standards, tentatively scheduled for completion by year-end.

The scoping task force met eight times for a total of thirty-four hours, with considerable additional time spent by volunteers preparing position papers that served as a basis for the

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[1] FERC Order No. 676-E, 18 C.F.R. §38.2 , ¶105, *can be accessed from* http://elibrary.ferc.gov/idmws/common/opennat.asp?fileID=12205059.

[2] The WEQ EC minutes for February 2, 2010 can be accessed from http://www.naesb.org/pdf4/weq_ec020210dm.doc.

[3] The OASIS subcommittee in its efforts regarding network integration transmission services, has held 33 meetings, many of which have spanned multiple days – 312 hours to date. In addition, there has been considerable work by the participants in-between the meetings to prepare work papers for consideration. It is expected that this work will add approximately 380 standards to WEQ-001, WEQ-002, WEQ-003 and WEQ-013 grouping of standards, excluding appendices and tables.

scoping report.[4] The task force prepared and unanimously supported the attached report of the recommended scope for development of the SAMTS standards. While the task force is a named group and balanced by segment interest, the notices of the conference calls were posted and any interested party regardless of their membership status in NAESB, was encouraged to participate. Twenty-six participants provided input into the report – including Roy True (ACES Power), Marcie Otondo (APS), Barry Green (Barry Green Consulting, representing EPSA), Barbara Rehman (BPA), Mike Jesensky (Dominion), Alan Pritchard (Duke Energy), Narinder Saini (Entergy), Ed Davis (Entergy), Rob Lamoureux (Midwest ISO), Ed Skiba (Midwest ISO), Gail Parker (Midwest ISO), James Manning (NCEMCS), Alan Johnson (NRG Energy), Paul Sorenson (OATI), James Eckelkamp (Progress Energy). JT Wood (Southern Company), Daryl McGee (Southern Company), Mark Robinson (SPP), Jeff Rooker (SPP), Clint Savoy (SPP), Kathy York (TVA), Heather Burnette (TVA), Marjorie Parsons (TVA), Rick Woodlee (TVA), Grant Wilkerson (Westar Energy), and Shah Hossain (Westar Energy).

The EC will consider this report on August 17, in its scheduled meeting in Colorado Springs, CO. The EC may determine to change aspects of the recommended scope, after which the OASIS subcommittee will begin crafting the standards, per the scope statement and will perform the work under NAESB WEQ 2010 Annual Plan item no. 2(a)(iii) "Group 5: Paragraph 1377[5] – Group 5 work should precede group 4 work"[6] We are optimistic that the development will complete by yearend. Our next status report to you is planned for January 2011, at which point we expect to be able to report that the standards have been completed by the subcommittee and are in the process of approval through the WEQ EC.

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[4] The task force activities including all work papers *can be accessed from* http://www.naesb.org/weq/weq_ec.asp.

[5] Paragraph 1377 of FERC Order No. 890, issued February 16, 2007: "The Commission agrees that transmission requests across multiple transmission systems should be coordinated by the relevant transmission providers. We will not, however, amend the pro forma OATT to require such coordination. Rather, we require transmission providers working through NAESB to develop business practice standards related to coordination of requests across multiple transmission systems. In order to provide guidance to NAESB, we will articulate the principles that should govern processing across multiple systems. All the transmission providers involved in a request across multiple systems should consider a request that requires studies across multiple systems to be a single application for purposes of establishing the deadlines for rendering an agreement for service, revising queue status, eliciting deposits and commencing service. In order to preserve the rights of other transmission customers with studies in the queue, the priority for the single application should be based on the latest priority across the transmission providers involved in the multiple system request. We note that regional entities like wesTTrans are already coordinating requests across multiple transmission systems and we believe such coordination is an acceptable solution to this issue."

[6] The NAESB 2010 WEQ Annual Plan *can be accessed from* http://www.naesb.org/pdf4/weq_2010_annual_plan.doc.

We appreciate the opportunity to provide this status report, to support the Commission's directives, and to develop standards for the coordination of requests for transmission service across multiple transmission systems.

Respectfully submitted,

Rae McQuade

Rae McQuade
President, North American Energy Standard Board

North American Energy Standards Board

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TO:	NAESB WEQ Executive Committee
FROM:	NAESB WEQ Task Force - Scope Coordination of Transmission Service Across Multiple Transmission Systems
RE:	Guidance for NAESB OASIS Subcommittee
DATE:	June 25, 2010

During the February 2, 2010, meeting of the WEQ Executive Committee, a task force was established to give guidance to the WEQ EC regarding the scope of work to be performed by the WEQ OASIS Subcommittee for Annual Plan Item 2(a)(iii) on standards to support service across multiple transmission systems (SAMTS)

The following members were appointed to the Scoping Task Force:

Chair: Alan Pritchard (Duke Energy)

Vice-Chair: Narinder Saini (Entergy)

Other Members:

Heather Burnette (Tennessee Valley Authority)

James Eckelkamp (Progress Energy)

Barry Green (EPSA)

Shah Hossain (Westar Energy)

Rob Lamoureux (Midwest ISO)

James Manning (NCEMC)

Marcie Otondo (Arizona Public Service)

Barbara Rehman (Bonneville Power Administration)

Paul Sorenson (OATI)

Roy True (ACES Power Marketing)

JT Wood (Southern Company)

The Scoping Task Force met via teleconference in 2010 on March 22, March 31, April 26, May 19, June 1, June 14, June 15 and June 18. Meetings are documented on the WEQ EC website.

The Scoping Task Force reviewed excerpts of comments on this subject filed with FERC under docket RM05-25 and also Commission Determinations in the subsequent FERC Orders 890 and 890-A. The Task Force also reviewed excerpts of comments on this subject filed with FERC under docket RM05-5-013 and also Commission Determination in the subsequent FERC Order 676-E.

A recommendation has been developed which provides guidance to the WEQ OASIS subcommittee. The Task Force believes that the recommendation addresses the key issues raised in the FERC proceedings while providing transparency to the market and flexibility to Transmission Customers.

The Scoping Task Force considered, at a high level, several methodologies by which the coordination could be accomplished. The consensus of the group was to opt for the simplest in order to expedite implementation. Doing so, however, necessitated a number of compromises; the attached scope document explains in greater detail the

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proposed methodology. In brief, it involves each affected Transmission Provider evaluating its portion of the linked request independently, with the opportunity for a true-up by the Transmission Customer once all evaluations are completed.

The Scoping Task Force recommends adoption of the attached scope document and submission of the recommendation to the OASIS subcommittee as guidance for development of related business practices.

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Scope Recommendation

Coordination of Transmission Service Across Multiple Transmission Systems

Basic Process:

The basic process recommended for coordination of requests for Transmission Service across multiple Transmission systems relies on the Transmission Customer, after submitting and monitoring requests on multiple systems, to communicate true-up information to each of the multiple Transmission Providers. The steps of the basic process are as follows:

Step 1: Submission of Requests for Transmission Service

A Transmission Customer will be permitted to submit a set of requests on multiple transmission systems and group them together. The Transmission Customer will have the understanding that one or more of the requests may not be accommodated in full as requested. In such an event, the Transmission Customer will not be required to reserve the full requested capacity on the remaining Transmission Service request(s). If one or more Transmission Provider(s) cannot accommodate the requested capacity, the Transmission Customer may adjust capacity on any other Transmission Service request of the linked group. For discussion purposes, the group of Transmission Service requests is referred to as the "linked group" and the process of adjusting capacity of Transmission Service requests in the "linked group" is referred to as "true-up."

Step 2: Initial Processing of Transmission Service Requests (Pre-true-up)

Each Transmission Provider that receives a request that is part of a linked group shall process that request in the order queued on the Transmission Provider's system as it would for any other request for Transmission Service.

For each request that is part of a linked group, the Transmission Provider and Transmission Customer shall meet the timing requirements outlined in Table 4-2. Upon completion of this phase of the process, each request will proceed to a final state (referred to as the "pre-true-up final state").

Once the pre-true-up final state is completed on a Transmission Provider's system, the Transmission Provider may continue processing the queue[7].

Step 3: Final Processing of Transmission Service Reservations (True-up)

When all of the requests of the linked group are in a pre-true-up final state, the Transmission Customer shall review the pre-true-up final state of each of the requests and determine the final requested capacity of each request, as follows:

[7] One advantage of this methodology is that it allows Transmission Providers to complete their evaluation of their portion of the linked group, have it confirmed by the Transmission Customer subject to true-up, and then move on with other requests in their queue. However, this simplification introduces into the queue processing the possibility that some requests may get denied due to transmission capability being held during joint processing of a linked group, and, if the capability is later released during the true-up, it would get allocated to a Transmission Customer with a later request.

Attached to this report is a paper prepared by Barry Green on behalf of EPSA which proposes and explains a new state of Provisionally Denied. The proposal would add some complexity to the queue processing procedures but preserves the first come/first served principal. It was beyond the scope of the Scoping Task Force to evaluate the pros and cons of this approach but the Task Force recommends that the OASIS Subcommittee evaluate the merits of incorporating a new state of Provisionally Denied. The draft standards developed by the OASIS Subcommittee will incorporate the results of this evaluation.

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1. If, in Step 2, one or more Transmission Provider(s) was not able to accommodate the full amount of the requested capacity, the Transmission Customer is permitted, but not required, to lower the amount of reservation capacity on any and all of the reservations in the linked group.
2. If, in Step 2, all of the Transmission Providers were able to accommodate the full amount of the requested capacity, the Transmission Customer is not permitted to lower the amount of the reservation capacity on any of the reservations in the linked group.

Upon deciding the final capacity for each of the reservations in the linked group, the Transmission Customer is required to inform each Transmission Provider of the amount of true-up capacity for the reservation(s) on that Transmission Provider's system. In response to the Transmission Customer's communication, the Transmission Provider shall finalize the amount of capacity for such reservation(s).

This completes the coordination process and the linked group is no longer linked for any further processing.

Additional Guidance:

1. Requests
    a. Unless otherwise prohibited, Transmission Provider(s) will be required to allow any combination of the following Transmission Services in a linked group:
        i. Yearly Firm PTP[8]
        ii. Monthly Firm PTP
        iii. Monthly Non-Firm PTP
        iv. Firm Network Service
        v. Monthly Non-Designated (Secondary) Network Service
    b. Pre-confirmation is required for short-term PTP requests
        i. These pre-confirmed requests shall be treated as any other pre-confirmed Transmission Service request with respect to queue position and preemption (Table 4-3)
        ii. Final true-up will permit changes in capacity on pre-confirmed reservations
    c. The Transmission Customer must provide the following for each request:
        i. A unique identifier that is assigned to the linked group (similar to the way a unique identifier is established for each e-tag)
        ii. The following information about each of the other requests for transmission service that are part of the linked group:
            1. Transmission Provider
            2. OASIS number of the request for Transmission Service

        Since the request process will involve submitting sequential requests on multiple Transmission Providers and not all of this information will be known until the last request has been submitted, the OASIS subcommittee should address the following issues:
            a. Make provisions after initial submission of a request for Transmission Service for adding or updating information about the other requests that are part of the linked group
            b. Establish a submission deadline for adding or updating such information

[8] If a Conditional Curtailment Option is offered, there may need to be additional true-up adjustments.

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d. Queue submission should be subject to the same requirements as if the request were not part of a linked group (timing tables do not need to be changed)
e. The Transmission Customer must be permitted to include any number of requests in a linked group.
    i. Permit single or multiple requests on one Transmission system to be linked with single or multiple requests on other Transmission systems
    ii. Permit one or more requests to be a concomitant request
    iii. Permit requests of different product types
    iv. Permit request with different durations (start/stop times)
    v. Permit requests which are not on adjoining transmission systems
f. There should be no requirement for any Transmission Provider to establish or offer new transmission products (e.g., should not require a Transmission Provider to establish a heretofore optional product such as an "EXTENDED" product)

2. Processing of requests prior to True-Up
    a. Each Transmission Provider will evaluate and respond to the request on its OASIS as if it were not part of a linked group
    b. Response timing by both the Transmission Provider and the Transmission Customer shall be the same as if the request were not part of a linked group and shall comply with Table 4-2
    c. The process should permit coordinated studies, in accordance with the pro-forma OATT, but it should not require performance of coordinated studies and it should not define the study process itself.
    d. Study timing, creditworthiness/deposits, transmission upgrade agreements, etc. would be processed as if the request were not part of a linked group.
    e. There should be no requirement for any Transmission Provider to monitor and/or take action in response to requests on other OASIS systems (e.g. the NAESB Business Practice Standards should not require a Transmission Provider to recognize that a request that is part of a linked group has been confirmed on another OASIS system.) In the event that the OASIS subcommittee determines that such requests cannot be coordinated without establishing such a requirement, the practice should establish a mechanism that facilitates communication between OASIS systems.
    f. In addition to the routine validation done for each request, each Transmission Provider will be limited to performing validation that the product requested on the Transmission Provider's system is an allowable "linked" product as identified in item 1.a. There should be no requirement for a Transmission Provider to validate consistency of product names and/or attributes across requests which are part of a linked group.
    g. Transmission Providers may not deny a request for any of the following reasons:
        i. A request should not be denied because it has a different time zone than another request in the linked group.
            1. With regard to time zone differences, the scope of work for this annual plan item shall be limited to addressing time zone differences in NITS on OASIS Business Practice Standards.
        ii. A request should not be denied because it has a different requested MW capacity than another request in the linked group.
        iii. A request should not be denied because it has a different product type than another request in the linked group.

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iv. A request should not be denied because it has different start/stop time(s) than another request in the linked group

v. A request should not be denied because requests in the linked group are not contiguous. (Linked groups are not required to be comprised of requests on adjoining systems.)

h. Once a request has been confirmed the following actions are prohibited until after completion of the true-up:

i. No release of parent firm capacity on a firm redirect that is a part of the linked group

ii. No subsequent resale of a reservation that is part of the linked group

iii. No subsequent redirect of a reservation that is part of the linked group

iv. No release of DNR capacity of a concomitant request that is part of the linked group

v. No tagging of a reservation that is part of the linked group

vi. No processing of a renewal request of a reservation that is part of the linked group

i. Right of First Refusal (ROFR)(Table 4-3) prior to true-up

i. When a request which is part of a linked group triggers a ROFR offering to an existing reservation on a constrained interface, the process should accommodate the process timing to work through the ROFR process (extend response time).

ii. Confirmed requests prior to true-up will be considered as Confirmed with respect to ROFR eligibility as set forth in Table 4-3 (shall not be considered a Pending request). Should the Transmission Customer opt to submit a MATCHING request in response to an ROFR, the MATCHING request will not become part of the linked group.

iii. Request of type "MATCHING" shall not be a valid request type in a linked group.

3. True-Up

a. Notification by Transmission Customer if all requests were confirmed with the requested capacity

i. The Transmission Customer must notify the Transmission Provider for each request in the linked group that the true-up has been completed and no adjustment to capacity is to be made by the Transmission Customer.

b. Notification by Transmission Customer if one or more of the requests was not confirmed with the requested capacity

i. The choice to true-up is a Transmission Customer's choice only. If one or more Transmission Provider(s) could not accommodate a requested capacity, the Transmission Customer may request to adjust capacity on any and all requests/reservations to values lower than the amount granted in the pre-true-up process, or may request nullification of all reservations in a linked group. The Transmission Customer may elect any combination of capacity values as long as the adjusted value of each reservation does not exceed the capacity granted by the respective Transmission Provider in the pre-true-up step. (For example, if three requests were linked for 125 MW each, and two of the Transmission Providers granted 125 MW but the third counteroffered at 107 MW, the Transmission Customer could rebid the 107 MW to 103 MW and adjust one of the other reservations to 100 MW and adjust the other to 103 MW. The Transmission Customer could also choose to withdraw the counteroffered request and adjust the other two requests/reservations to zero.)

1. The Transmission Customer must communicate its true-up decisions to each Transmission Provider after all requests are in a pre-true-up final state. The

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OASIS subcommittee will determine the proper timing and communication requirements.

2. The true-up mechanism may be some form of a counter-offer/release type mechanism. True-up will apply only to capacity.

ii. The true-up process shall not require a Transmission Customer to ultimately reserve Transmission Service in excess of the lowest capacity granted by any Transmission Provider.

iii. The true-up process shall not require any Transmission Provider to accept a reservation which is not obtainable by other Transmission Customers (e.g., require a weekly request to have different MW values for different days of the week if all other Transmission Customers are required to profile a single MW value for each week).

c. Transmission Provider Response to a true-up notification

i. Upon notification from the Transmission Customer, the Transmission Provider will set the capacity granted to the value requested by the Transmission Customer and will move the status to a post-true-up final state.

1. Upon completion of the true-up, some reservations may be annulled (full release of commitment to purchase transmission capacity) or recalled (partial release of commitment to purchase transmission capacity) and the agreement and corresponding deposit amount would be finalized/amended.
2. Upon completion of the true-up, the Transmission Provider will release restrictions on processing of reservations that are part of the linked group
    a. The Transmission Provider will release parent firm capacity on all firm redirects that are part of the linked group
    b. The Transmission Provider will remove prohibition on resale of reservations that are part of the linked group
    c. The Transmission Provider will remove prohibition of redirects of reservations that are part of the linked group.
    d. The Transmission Provider will release DNR capacity of concomitant requests that are part of the linked group
    e. The Transmission Provider will permit tagging of reservations that are part of the linked group
    f. The Transmission Provider will initiate processing of queued renewal requests of reservations that are part of the linked group

ii. Response times will be based on the current response timing table (table 4-2) or as determined by the OASIS subcommittee.

d. Rollover Rights

i. True-up will not begin until the rollover rights status is known (if rollover rights are not granted, the other reservations in the linked group may be terminated or adjusted via the true-up process).

4. <u>After True-up</u>

a. The coordination procedure will extend only for evaluation and processing of requests in a linked group. After initial coordination is completed (true-up), each of the resulting reservations shall be treated as any other reservation.

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i. Renewal requests to exercise rollover rights may be combined in a subsequent linked group. Scope will otherwise not include changes to the granting or management of rollover rights.

b. Competition after True-Up
   i. After true-up, if one of the reservations from the linked group is subject to competition (Table 4-3) on one OASIS system, the outcome of that competition should have no impact on the statuses of the remaining reservations of the linked group. That is, loss of one reservation of a post-true-up confirmed reservation does not invalidate the remaining reservations of the original linked group, nor does the extension of one reservation of a linked group via a MATCHING request give the Transmission Customer the right to extended duration and/or capacity on the remaining components of the linked group.

5. Miscellaneous
   a. As with other NAESB Business Practice Standards, this process shall include provisions for auditing the process.
   b. The Business Practice Standard shall permit regional alliances to establish a mechanism wherein a single request is processed for Transmission Service on multiple Transmission Providers, as is done by WesTTrans. Such a mechanism must allow coordination with requests in a linked group, as will be provided in the NAESB Business Practice Standards, that extend beyond the boundaries of the alliance.
   c. NITS on OASIS
      i. DNR requests should not be denied due to time zone differences between a network service request and the corresponding (required) request(s) on other Transmission Provider system(s).
         1. Coordination of requests across multiple time zones is not a new issue. However, when a Transmission Customer requesting a DNR must show firm transmission capacity on a system in a different time zone, a timing mismatch may occur. This new NAESB Business Practice Standard should not require offering of additional products in order to establish an identical hour-by-hour match of reservations on OASIS systems that serve different time zones.
         2. It should, however, establish a prohibition on denial of a DNR because of a time-zone induced hour-by-hour mismatch.
         3. The OASIS subcommittee may also wish to review and modify the definitions of “FIXED”, “SLIDING” and “EXTENDED” in order to permit Transmission Providers to offer narrowly defined products that accommodate time-zone specific products.
         4. Transmission Customers should not be forced to procure an additional one hour of Transmission Service on a non-firm basis to transfer a firm energy source for which it has long-term firm arrangements because not all Transmission Providers offer firm hourly product and not all Transmission Providers offer short-term firm in all future periods.
      ii. The OASIS subcommittee should establish Transmission Provider and Transmission Customer response times for the network service product types which are allowed to be included in a linked group (see Additional Guidance item 1.a.).

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Discussion Paper for
The Scoping Task Force on Coordination of Transmission Service Across Multiple Transmission Providers
Processing of Requests
By Barry Green

Background:
During the conference call of May 19th the Task Force discussed the question raised in section 5 c (ii) of the work paper and reproduced below together with a comment that I had offered:

> If the process permits current queue processing by each TP individually with a true-up mechanism at the end such as in 2a above, there will be instances where a TP denies a request that was queued subsequent to the linked request because the TPs component of the linked request was confirmed in full and then, at the true-up time, reduces the confirmed linked request's capacity and offers the amount reduced as additional ATC. In this instance the queue processing is not delayed but the customer who was denied capacity has lost his queue position (refused for insufficient ATC) and must submit a new request to compete for the newly posted ATC. TC – generally OK. Is there any other recourse?

More specifically, I offered an example to illustrate the situation.

Customer 1 has submitted a linked request for 100 MW across TP A and B. TP A has accepted the request and the customer has confirmed it and TP B is still evaluating the request. On TP A's system the request is now in the state that we had called during the conference call "Confirmed but not Trued Up". TP A must assume that 100 MW has been purchased although depending on the response from TP B the ultimate transmission service purchased by Customer 1 could be anywhere between 0 and 100 MW. Also in this example, if Customer 1 ultimately purchases the 100 MW, then TP A has 0 ATC on this interface. While awaiting the response from TP B, Customers 2 and 3 each submit requests for 25 MW, in that order. After TP A has denied the request from Customer 2 but before the request from Customer 3 is processed, TP B completes its assessment and Customer 1 purchases only 75 MW of service.

Therefore, depending on how the queue is processed, the additional 25 MW could be offered to either customer 2 or 3.

TP Suggested Approach:
Based on the TP suggestion contained in section 5 c (ii) above, customer 2 would have been denied service and when the 25 MW is freed up based on the true up of customer 1's request, it would be offered to customer 3.

Alternative Approach:

When TP A completes its assessment of customer 2's request, it is put in a state of "Provisionally Denied". If the assessment of customer 3's request is completed prior to the true up by customer 1 it too would be provisionally denied. When the true up is complete, TP A would return to the provisionally denied requests in its queue and deal with them in first come first served order, offering the service to customer 2 first.

Discussion:
During the May 19th conference call the TPs offered 2 reasons for preferring their approach. (This is not intended to preclude other reasons being offered as this discussion proceeds). One was the additional complexity that would result from my approach. The second was that the approach they suggested was analogous to the treatment of redirects. That is, if in the example above, customer 1 had fully confirmed its purchase of the 100 MW, customer 2 had requested 25 MW and been denied and then some customer had redirected 25 MW off of the interface, customer 3 would be granted the 25 MW and customer 2 would have no recourse.

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My response to these two arguments is as follows.

I agree that my approach adds complexity to queue processing. I also acknowledge that I am not qualified to judge the degree of the additional complexity. I would suggest to the Scoping Task Force however, that if this were the only argument against this approach, I believe the Task Force should direct the OASIS Subcommittee to consider both of these approaches during their development of the Business Practice and report back to the EC on how substantial the additional complexity is and whether or not it is warranted.

On the redirect argument, I do not believe the analogy is appropriate. In the case of the redirect, customer 2 is denied service based on all of the information available to TP A at the time that it completes its assessment. The fact that new information becomes available after customer 2 is denied but before customer 3's request was processed, represents good fortune for customer 3, but is not something that can be anticipated or planned for. In the case of the linked transactions however, it is known that the 100 MW request, although technically confirmed, is uncertain. While TP A has to assume that the 100 MW is sold to customer 1 for the purpose of granting additional transmission service, it should take reasonable measures to plan for the true up process resulting in a sale of less than 100 MW. These "reasonable measures" might also benefit TP A. If there were no customer 3 in this example, following the true up, under the TP approach, TP A would passively post an additional 25 MW of ATC on the interface. However, if there is a provisionally denied queue, the TP would immediately accept customer 2's request for the 25 MW freed up by customer 1.

I suggest as well, two additional thoughts for consideration of the advantages of my approach. The first is a potential gaming issue. When customer 1 receives its response from TP B with the counteroffer of 75 MW, it will have some period of time to assess this counteroffer and true up its request. Under the TP suggested approach, if customer 1 is aware of where TP A is in processing its queue, it could be in a position to determine whether customer 2 or 3 will be offered the incremental amount of service by rushing or delaying its confirmation. Under my approach the incremental amount of service would automatically be offered to customer 2.

The second is related to the FERC Order as reproduced below:

> All the transmission providers involved in a request across multiple systems should consider a request that requires studies across multiple systems to be a single application for purposes of establishing the deadlines for rendering an agreement for service, **revising queue status**, (emphasis added) eliciting deposits and commencing service. (890-1377)

During the conference call, JT Wood and I discussed at some length the status of a linked request that has been approved by TP A but is awaiting responses from one or more other TPs. From JT's point of view this is an accepted request and the customer is expected to confirm it in the appropriate time frame. OASIS would treat it as such, although separately acknowledging that the true up provisions are still "in play". While not objecting to the customer obligation to confirm, I argued that this was not really a confirmed request in the normal sense of the word because of the possibility of true up. For the purpose of the conference call we agreed to the term "Confirmed but not Trued Up", however the difference between the 2 approaches discussed above suggests that the differing views of the Confirmed State is more than a semantic difference. As can be seen from the highlighted quote from Order 890 Paragraph 1377, the intent is that these linked transactions be treated as a single request. While I do not object to the use of the term "confirmed" prior to the true up process if that results in some simplification of the queue handling procedures, that alone should not lead to a suboptimal treatment of queuing priorities.

I therefore recommend that our Scoping Task Force direct the OASIS Subcommittee to consider a process, such as the definition of a Provisional Denied status so that a Customer denied service while the requisite ATC is held in a Confirmed but not Trued Up state for a customer with a linked request pending on another system, be allowed to retain its queue position until the final disposition of such a request.

Barry Green

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December 10, 2009

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

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

2010 Calendar of Board and Advisory Council Meetings

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

2010 Calendar of Executive Committee Meetings

Date	Meeting	Location
February 2-4	Executive Committee (WEQ, Retail, WGQ)	Phoenix, AZ hosted by Salt River Project
May 4-6	Executive Committee (WEQ, Retail, WGQ)	Harrisburg, PA hosted by the Pennsylvania PUC
August 17-19	Executive Committee (WEQ, Retail, WGQ)	Colorado Springs, CO hosted El Paso Western Pipeline
October 26-28	Executive Committee (WEQ, Retail, WGQ)	Glen Allen, VA hosted by Dominion

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