

**North American Energy Standards Board
Executive Committee Meeting
Wholesale Gas & Retail Electric Quadrants**

June 13, 2002

**NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE
MEETING – WHOLESALE GAS & RETAIL ELECTRIC QUADRANTS
Meeting Materials
June 13, 2002**

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MEETING – WHOLESALE GAS & RETAIL ELECTRIC QUADRANTS
Meeting Materials
June 13, 2002**

1. Welcome and Opening Remarks

- The NAESB organization thanks Boeing and Ms. Tina Burnett for hosting this meeting. The meeting specifics are:

WHERE: Boeing Offices
Long Acres
1301 Southwest 16th Street
Renton, Washington

WHEN: Thursday, June 13, 2002
9:00 a.m. to 4:00 p.m. Pacific Time

- The chairman may elect to extend the hours of the meeting if more time is required to complete the agenda.

- For further assistance please reach:

Veronica Thomason at (713) 356 - 0060

- The officers presiding over the Executive Committee meeting are:

Jim Buccigross	- Chairman
Mike Novak	- WGQ Vice Chairman
VACANCY	- REQ Vice Chairman
Rae McQuade	- Executive Director and COO
Jay Costan	- General Counsel (by phone)

- Transcripts will be available and can be ordered either during the meeting, or by contacting the NAESB office after the meeting for further information, 713-356-0060.

North American Energy Standards Board

1100 Louisiana, Suite 3625, Houston, Texas 77002
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Home Page: www.naesb.org

NORTH AMERICAN ENERGY STANDARDS BOARD 2002 EXECUTIVE COMMITTEE TERMS - Wholesale Gas Quadrant

End User Segment		Term Ending:
Diane McVicker	Principal, Fuel Supply Analyst, Salt River Project	Dec 31, 2002
Bill Hebenstreit	Vice President Contract Services, El Paso Merchant Energy	Dec 31, 2002
Kelly Daly	Partner, Morrison & Hecker, rep. Arizona Public Service Co.	Dec 31, 2004
Dona Gussow	Contracts Coordinator, Florida Power and Light	Dec 31, 2003
Tina Patton	Natural Gas Operations Administrator, Boeing	Dec 31, 2003
LDC Segment		Term Ending:
Rodger Schwecke	Senior Pipeline Products Manager, Southern California Gas	Dec 31, 2002
Dolores Chezar	Director, Regulatory Policy, KeySpan Energy	Dec 31, 2002
Chris Maturo	Manager, Energy Access System Project, NIPSCO Industries	Dec 31, 2004
Mike Novak	Assistant General Manager, National Fuel Gas Distribution	Dec 31, 2003
Steve Sullivan	Regulatory Manager of Gas Supply, Consolidated Edison of NY	Dec 31, 2003
Pipeline Segment		Term Ending:
Mark Gracey	Consultant - Business Processes, Tennessee Gas Pipeline Co.	Dec 31, 2002
Bill Griffith	Director, Transmission & Storage, Colorado Interstate Gas Co.	Dec 31, 2002
Dale Davis	Team Leader, Williams Gas Pipelines	Dec 31, 2004
Randy Young	Gulf South Pipeline	Dec 31, 2003
Kim Van Pelt	GISB Coordinator, CMS Panhandle Eastern Pipeline	Dec 31, 2003
Producer Segment		Term Ending:
Lauren Kaestner	Regulatory Consultant, BP Amoco	Dec 31, 2002
Paul Keeler	Managing Attorney, Marketing, Burlington Resources	Dec 31, 2002
Sheri Hesslington	Dominion Exploration	Dec 31, 2004
Richard Smith	Director, Regulatory Affairs, ExxonMobil	Dec 31, 2003
V A C A N C Y	V A C A N C Y	Dec 31, 2003
Services Segment		Term Ending:
Mark Scheel	Manager Governmental Affairs, Dynegy Inc.	Dec 31, 2002
Carl Caldwell	Director, Consulting Services, CGI	Dec 31, 2002
Leigh Spangler	CEO, Latitude Technologies	Dec 31, 2004
Jim Buccigross	Vice President, 8760 Inc.	Dec 31, 2003
Keith Sappenfield	Director, PanCanadian Energy Services	Dec 31, 2003

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NORTH AMERICAN ENERGY STANDARDS BOARD 2002 EXECUTIVE COMMITTEE TERMS - Retail Electric Quadrant

Distribution Segment		Term Ending:
Ruth Kiselewich	Director Special Projects and Supplier Services, Baltimore Gas & Electric Company	Dec 31, 2005
Terry Moran	Regulatory Issues Manager, PSEG (MAAC NERC Region)	Dec 31, 2005
William Newbold	Strategy Manager of Electric Choice Implementation Team, Detroit Edison (ECAR NERC Region)	Dec 31, 2004
Jeff Anthony	Manager of Business and Regulatory Strategies, Wisconsin Electric - Wisconsin Gas (MAIN NERC Region)	Dec 31, 2004
End User Segment		Term Ending:
John Anderson	Executive Director, Electricity Consumers Resource Council	Dec 31, 2005
Steve LaFond	Corporate Electricity Resources, Boeing Corporation	Dec 31, 2005
Barbara Alexander	Maine Office of Public Advocate	Dec 31, 2004
V A C A N C Y		Dec 31, 2004
Services Segment		Term Ending:
Jim Minneman	Director of Business Services, PPL Solutions LLC	Dec 31, 2005
Dick Brooks	Vice President Secure Systems and Products Strategy, Systrends, Inc	Dec 31, 2005
Rob Connell	Manager of Commercial Systems Applications, Electric Reliability Council of Texas	Dec 31, 2004
V A C A N C Y		Dec 31, 2004
Supplier Segment		Term Ending:
Brenda Crockett	Manager Retail Operations for US, Dynegy	Dec 31, 2005
Felecia Lokey	Director Retail Regulatory Affairs North American TXU Energy	Dec 31, 2005
Jonathan Kubler	Manager of Pricing and Rates, Georgia Power Company	Dec 31, 2004
Heidi Schrab	Market Development Operations Manager, Green Mountain Energy Company	Dec 31, 2004

OFFICERS: Jim Buccigross is 2002 chairman of the Executive Committee and Mike Novak is 2002 WGQ vice chairman; the REQ vice chairman has not yet been elected.

**NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE
MEETING – WHOLESALE GAS & RETAIL ELECTRIC QUADRANTS
Meeting Materials
June 13, 2002**

1. Antitrust Guidelines

- The antitrust guidelines will be covered. The points are:

Antitrust guidelines direct meeting participants to avoid discussion of topics or behavior that would result in anti-competitive 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.

**NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE
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Meeting Materials
June 13, 2002**

2. Adoption of Agenda

- The proposed agenda, attached, has been distributed and is available on NAESB's home page.
- **The Executive Committee is requested to review the agenda, suggest changes if needed, and vote to adopt the agenda.**



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June 5, 2002

TO: NAESB Executive Committee and Interested Industry Participants
FROM: Jim Buccigross, NAESB Executive Committee Chairman
Rae McQuade, NAESB Executive Director
RE: Executive Committee Meeting Agenda – June 13, 2002

NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE MEETING
Hosted by Boeing at its offices in Seattle, Washington

Thursday, June 13, 2002 – 9:00 a.m. to 4:00 p.m. Pacific Time

MEETING ANNOUNCEMENT & AGENDA

As announced at the Executive Committee meeting on April 18, the Executive Committee (EC) will meet in the offices of the Boeing on June 13, coordinated by Ms. Tina Burnett. Below are the meeting arrangements:

WHERE: Boeing Offices
Long Acres
1301 Southwest 16th Street
Renton, Washington

WHEN: Thursday, June 13, 2002
9:00 a.m. to 4:00 p.m. Pacific Time

The materials for the meeting will be emailed to the participants and posted on the web site. Conference calling will be available for those unable to attend in person – please call the office for the dial-in number, pass code and conference leader. **Please confirm your attendance to the NAESB office (713-356-0060, naesb@aol.com) by June 10, to ensure adequate meeting planning.**

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

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

Best Regards,
Rae McQuade



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NAESB EXECUTIVE COMMITTEE MEETING – JUNE 13, 2002

Hosted by Boeing in Seattle, Washington

DRAFT AGENDA

Thursday, June 13, 2002 – 9:00 a.m. to 4:00 p.m. Pacific Time

- | | | |
|------------|----|--|
| 9:00 a.m. | 1. | Welcome <ul style="list-style-type: none">• Antitrust Guidelines• Welcome to members and attendees• Introduction and Roll Call |
| 9:15 a.m. | 2. | Wholesale Gas Quadrant Draft Agenda & Draft Minutes of Prior Meeting <ul style="list-style-type: none">• Adoption of WGQ Agenda• Adoption of Draft Minutes of April 18, 2002 |
| 9:30 a.m. | 3. | Update on 2002 WGQ Annual Plan & Subcommittee Reports <ul style="list-style-type: none">• Business Practices Subcommittee<ul style="list-style-type: none">• Normal Business• Order 587 Actions• Contracts Subcommittee<ul style="list-style-type: none">• Funds Transfer Agent Agreement• Credit Annex• EDM Subcommittee<ul style="list-style-type: none">• Normal Business• Future Technology Task Force Activities• XML Activities• Information Requirements Subcommittee<ul style="list-style-type: none">• Normal Business• Order 637 Open Issues• Technical and ANSI X12 Subcommittees<ul style="list-style-type: none">• Normal Business• Order 637 Open Issues• Publication Process Review Task Force• Meeting Coordination Task Force |
| 10:30 a.m. | 4. | 2002 WGQ Annual Plan Review |
| 11:00 a.m. | 5. | Discussion and Vote on New Requests if they are received prior to the meeting |
| 11:15 a.m. | 6. | Discussion and Vote on Proposed Standards for the WGQ <ul style="list-style-type: none">• Fund Transfer Agent Agreement |
| 11:45 p.m. | 7. | Discussion on Title Transfer Tracking in light of FERC Order 587-O, Docket No. RM96-1-020, requiring implementation of NAESB Standards, Version 1.5 |

BREAK TAKEN FOR LUNCH



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NAESB EXECUTIVE COMMITTEE MEETING – JUNE 13, 2002

Hosted by Boeing in Seattle, Washington

DRAFT AGENDA

Thursday, June 13, 2002 – 9:00 a.m. to 4:00 p.m. Pacific Time

- | | | |
|-----------|-----|---|
| 1:00 p.m. | 8. | Retail Electric Quadrant Draft Agenda <ul style="list-style-type: none">• Adoption of the REQ Agenda |
| 1:15 p.m. | 9. | Update on REQ Membership |
| 2:00 p.m. | 10. | Election of Executive Committee REQ Quadrant Vice Chairman |
| 2:15 p.m. | 11. | Proposed 2002/2003 REQ Annual Plan <ul style="list-style-type: none">• Update on Plan• Discussion/Q&A• Procedure Vote to Accept Plan to Forward to the Board of Directors |
| 2:30 p.m. | 12. | Establishment of REQ Task Forces and Subcommittees |
| 3:00 p.m. | 13. | Other Business <ul style="list-style-type: none">• Update on formation activities for the Retail Gas Quadrant and Wholesale Electric Quadrant• Other Business |
| 4:00 p.m. | 14. | Adjourn |
-



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NAESB EXECUTIVE COMMITTEE MEETING – JUNE 13, 2002

Hosted by Boeing in Seattle, Washington

Thursday, June 13, 2002 – 9:00 a.m. to 4:00 p.m. Pacific Time

LOCATION INFORMATION – HOTELS AND PARKING

Parking at the meeting place is very tight. Please try to taxi, carpool, or shuttle into the meeting place. Overflow parking is available. Please read important parking policy attached.

Washington - Seattle / Airport (These hotels are close to both the IR meetings early in the week and the EC meeting).

Wyndham Garden SeaTac Airport
18118 Pacific Hwy S

Hawthorn Suites Sea-Tac
19621 International Blvd.

Marriott Sea-Tac Airport
3201 South 176th Street

Doubletree Hotel Seattle Airport
18740 International Blvd.

Hilton Seattle Airport and
Conference Center
17620 Pacific Hwy South

Homewood Suites Sea-Tac Int'l Airport -
Tukwila
6955 Fort Dent Way

These hotels are **closest to the EC meeting** and are also only a few miles from the airport. They are still less than 10 miles from the IR meetings. The Hampton Inn is the closest (within a one mile walk).

Hampton Inn Seattle Southcenter
7200 S 156th St

Courtyard Seattle/ Sea-Tac Area
16038 West Valley Highway

Homestead South Center Seattle
15635 W. Valley Hwy.

Courtyard Seattle South Center
400 Andover Park West

Doubletree Guest Suites Seattle
16500 Southcenter Pkwy

Residence Inn Seattle-South/Tukwila
16201 West Valley Highway



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LOCATION INFORMATION – HOTELS AND PARKING

Downtown hotels. They are about 20 miles from the meeting place.

W Seattle Hotel
1112 Fourth Ave

The Westin Seattle
1900 5th Ave

Sheraton Seattle Hotel & Towers
1400 6th Ave

Residence Inn Seattle – Lake Union

Homewood Suites Seattle
Downtown
206 Western Ave W

Hampton Inn & Suites Seattle
Downtown
700 Fifth Avenue

Four Seasons Olympic Hotel
411 University St

Elliott Grand Hyatt Seattle
721 Pine Street

Crowne Plaza Seattle Downtown
1113 6th Avenue

Courtyard Seattle Downtown -
Lake Union
925 Westlake Avenue North



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Hosted by Boeing in Seattle, Washington

Thursday, June 13, 2002 – 9:00 a.m. to 4:00 p.m. Pacific Time

LOCATION INFORMATION

Boeing 25-01, 25-02, 25-03 Parking Policy

Effective Friday, February 1, 2002, Boeing Security will begin enforcing the Boeing Company parking procedure, **PRO-4118**, dated July 31, 2000, <http://policyplus.boeing.com/PS/PDF/DDD/PRO-4118.pdf>. This policy authorizes the ticketing, towing and impounding of vehicles that are illegally parked in the 25-01, 25-02, and 25-03 parking lots.

The following articles are in compliance with the above Boeing Procedure and are applicable to all residents, students, and visitors authorized to use the Customer Services Training Center parking lot.

Article (1)

All vehicles must be properly parked within clearly identified stalls. Vehicles illegally parked in fire, access, or traffic lanes; blocking fire hydrants or doors; or causing traffic congestion will be ticketed with a violation notice and subject to impound at the owner's expense. Vehicles may be removed at the discretion of Security and Fire Protection.

Please note: If your vehicle is parked in any part of the crosshatched, end of row area, it is subject to the above policy.

Article (2)

Unauthorized vehicles parked in ADA Handicap, White Numbered, Red Squares, HOV Vanpool / Carpool stalls and VP (Visitor Parking) stalls will be ticketed. The owners of the vehicles will be contacted by Boeing Security, escorted to their vehicle, and required to move the vehicle to an appropriate parking location. Repeat offenders or owners who can not be located will have a locking device attached to the wheels of their vehicle or have their vehicle towed and impounded per Article (1) above.

ADA Disability Stall, state disabled placard required, restricted parking 24 hours a day, 7 days a week

White Squares (XXX) assigned, requires Tier 3 credentials, restricted parking, 24 hours a day, 7 days a week

Red Squares, requires Tier 2/Tier 3 credentials, restricted parking, 24 hours a day, 7 days a week

HOV Vanpool, restricted parking, 24 hours a day, 7 days a week

HOV Carpool, requires Tier 1 HOV credentials, restricted parking 6:00 AM to 9:00 AM, Monday through Friday

VP – Visitor Parking, used by non-Boeing visitors to the site. The lobby will monitor these stalls.

Effective Monday, February 11, 2002



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Hosted by Boeing in Seattle, Washington

Thursday, June 13, 2002 – 9:00 a.m. to 4:00 p.m. Pacific Time

LOCATION INFORMATION

Vehicles in violation of the above policy Article (1) will be ticketed, towed, and impounded at the towing companies impound lot.

Dick's Hiline Towing is located at 2012 S. 146th St, Seattle, WA (206) 242-9901

The cost to retrieve the vehicle will be \$150 + ½ day impound cost of \$15.

Additional impound charges are \$30 per day.

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MEETING – WHOLESALE GAS & RETAIL ELECTRIC QUADRANTS
Meeting Materials
June 13, 2002**

3. Adoption of Minutes

- The WGO draft minutes of April 18, including attachments, are posted on the home page for review and are included in these materials for vote to adopt.
- The review of the minutes prior to adoption is not intended to provide alternate wording -- rather it is an opportunity to correct grammatical and spelling errors, provide omitted details, provide context for statements and correct misstatements. In this way, the review of the minutes should concentrate on substantive issues and take the minimum of time needed to provide an accurate accounting of the meeting.
- **The WGO Executive Committee is requested to review the draft minutes, suggest additional changes if needed, and vote to adopt as minutes of the meetings.**



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TO: Executive Committee (EC) Members
Posting for Interested Industry Participants

FROM: Rae McQuade, Executive Director

RE: Draft Minutes from the Executive Committee (EC) Meeting – April 18, 2002

DATE: April 18, 2002

**NORTH AMERICAN ENERGY STANDARDS BOARD
NAESB EXECUTIVE COMMITTEE MEETING
APRIL 18, 2002
DRAFT MINUTES**

1. Administrative

Mr. Buccigross opened the meeting and thanked Ms. Arnaout and American Gas Association for hosting the meeting. Mr. Costan provided the antitrust charge governing the conduct of the meeting. Ms. Hesslington was welcomed to the Executive Committee representing the producer segment and Ms. Tina Patton Bennett was congratulated on her recent marriage.

Ms. McQuade announced the EC members and alternates in attendance. Ms. Bennett moved that the agenda be adopted, which was seconded by Ms. Chezar. The motion passed with no opposition. Ms. McVicker made the motion, seconded by Ms. Gussow to adopt the redlined February 21 draft minutes with changes noted in the meeting. The motion passed with no opposition. The meeting is transcribed by Mr. Hoffman of Ace Federal. To order transcripts, please contact the NAESB office at 713-356-0060.

2. Subcommittee Updates

Ms. Van Pelt reviewed the activity to date for the Business Practices Subcommittee (BPS) including work on request R02002 from KeySpan Energy to address Order 587-N. Several meetings and conference calls have been scheduled. In addition, the BPS has two new requests and an interpretation for the super nominations to be addressed in upcoming meetings.

Ms. McQuade gave the update from the Contracts Subcommittee. The subcommittee has concluded its work on the Funds Transfer Agent Agreement, and the efforts toward the credit annex should begin soon. Ms. Calcagno noted her interest in co-chairing the Contracts Subcommittee.

Mr. Spangler provided the update for the Electronic Delivery Mechanisms (EDM) Subcommittee. Ms. Van Pelt suggested the subcommittee plan to monitor and address the minimum technical characteristics to provide sufficient time to complete the analysis and Mr. Spangler concurred. The Future Technology Task Force and the XML Subcommittee have been folded into the EDM Subcommittee.

Mr. Whatley provided the update for the Information Requirements Subcommittee (IR). He noted that there are no remaining open FERC Order 637 items in IR's backlog. During the last round of meetings, several requests have been addressed. The Producer Imbalance Statement has been completed, as has request no. R97058B, which addresses proprietary entity codes



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usage. R97058B has changes to each of the data sets. Ms. Davis was thanks for her efforts in bringing this work to a close. The subcommittee is now addressing a significant backlog of requests, the log of which is published on the web site.

Ms. Van Pelt provided the update on the Technical and ANSI Subcommittees. Data sets for transactional reporting are underway and code values have been added. The subcommittee is currently developing X12 data sets for transactional reporting and awaiting IR activity on a specific request which would modify the data sets before asking for structural changes from the ANSI X12 Committee.

Mr. Novak provided the report from the Publication Process Review Task Force and a proposal was provided. He noted that additional staffing at the NAESB office is needed to support the process to support a July 31 publication date, the creation of an expanded log to support tracking of requests, the support of the four quadrants publication activities. The task force recommended a more frequent ratification process, and minutes made available more quickly including attaching the recommendation approved during the meeting. Several issues remain open including the need for a universal request number system, a standard numbering system, how publication would work across the four quadrants, and development of criteria for versioning of the standards manuals. The task force did not ask for an extension of time, but rather to go on hiatus. At the June EC meeting, the PPRTF report will be presented for approval, as it was not provided with sufficient time for EC members to consider it at the April EC meeting. Questions should be directed to the PPRTF in May for responses prior to the June EC meeting.

In review of the annual plan, several changes were suggested for Board approval at the Board's meeting in June. The revised annual plan is attached. The changes include a separation of the FERC orders item so that the item for Order 587-N (Docket No. RM96-1-019) is reflected separately from other possible activities that have not yet actualized, (the Affiliate Order, Docket No. RM01-10-000). The date of completion for RM96019 will be set at fourth quarter 2002.

3. New Requests

R02003

Request: Submitted by Tennessee Gas Pipeline to add a new Capacity Release data element - Discount Indicator - Non-Reservation. The element will be used to indicate if the Releasing Shipper intends for non-reservation discounts associated with a contract to be passed to the replacement shipper

Disposition: Mr. Love moved, seconded by Mr. Sappenfield, to find the request in scope. There was no opposition. Ms. Burnett moved, seconded by Mr. Love that the request be sent to the BPS to be addressed in the normal course of business. There was no opposition.

R02004

Request: Submitted by El Paso Energy - ANR Pipeline to add new code values for the discount indicator in the Capacity Release Data Sets. The discount indicator is currently used in the capacity release data sets to provide information on 1) if the additional reservation charges will be charged if gas is moved to other points than the points listed on the contract, 2) if the release contract is subject to discounts on theses additional charges, and 3) who will pay those additional charges. Order 637 allows customers to release segments of their capacity. With



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segmentation of the contract, the possibility exists that there could be additional charges for not only moving gas to secondary points not listed on the contract, but there could be additional demand related charges for movement of gas from these segmented points listed on the contract. This is different from the current codes that assumed that the release of capacity would be from the discounted points on the contract. ANR is requesting two additional code values to provide this information to replacement shippers.

Disposition: Ms. Davis moved, seconded by Mr. Schwecke, to find the request in scope. There was no opposition. Ms. Davis moved, seconded by Ms. McVicker that the request be sent to the IR to be addressed in the normal course of business. There was no opposition.

R02005

Request: Submitted by El Paso Energy - ANR Pipeline for a New Business Conditional data element and code values for a Rights to Amend Primary Point indicator in the Capacity Release Data Sets. The data element would be used in the capacity release process. A customer releasing a primary point on the contract would use the indicator to signify that he is willing to allow the releasing customer to relocate the primary point. If the indicator is checked yes, then the replacement shipper would be allowed to request a change to the primary point on the released contract. If the change were to be approved then the replacement contract would be changed to move the primary point to the new location.

Disposition: Ms. Davis moved, seconded by Mr. Hebenstreit, to find the request in scope. There was no opposition. Ms. McVicker moved, seconded by Mr. Love that the request be sent to the BPS to be addressed in the normal course of business. There was no opposition.

R02006

Request: Submitted by Enron Transportation Services to add a code value for the Validation Code data element in the Nomination Quick Response (1.4.2). The validation code will be used to inform the service requester when their contract includes nominations for path(s) that may result in a higher transportation rate. To provide an accurate response to the service requester regarding the nomination(s) submitted.

Disposition: Ms. Gussow moved, seconded by Mr. Hebenstreit to find the request in scope. There was no opposition. Mr. Schwecke moved, seconded by Ms. Gussow that the request be sent to the IR to be addressed in the normal course of business. There was discussion that if this request as a new business requirement, it should be sent to BPS. However, because it was a code value change, it was determined to send it to IR. There was no opposition to the motion.

4. Proposed Standards

R01020: Decline the request to add an identifier for "XML" to the list of possible identifiers within the input-format HTTP request data element of the EDI/EDM specification.

The ERCOT commentary and commentary from Dynege, Latitude Technologies and Systrends was reviewed regarding this recommendation. Mr. Scheel motioned, seconded by Mr. Sappenfield to adopt the recommendation outlined in Dynege's comments. Mr. Costan noted that the EC must first act on the recommendation to decline which is a simple majority vote. Mr. Scheel's motion was called out of order. Ms. Chezard made the motion, seconded by Mr. Hebenstreit to adopt the recommendation to decline.

In discussion on the motion, Ms. Van Pelt explained that those participants on the EDM subcommittee that voted to decline XML tagging did so because NAESB does not yet have XML



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standards and little interest has been shown in the XML pilot. As such, they did not see the need for the XML tag to be added to the EDI/EDM specification to support NAESB standards. Once the pilot test concludes, this request for XML tagging could be reconsidered.

Mr. Sappenfield noted that there is no requirement to use the tagging and adding the code value permits those that want to use the code in other industries allows them to do so. Mr. Novak explained that the original discussion was focused only on the wholesale gas quadrant usage of standards. Even though the standard would apply to the retail, it does not require use of XML, only permits via mutual agreement the use of XML. Mr. Scheel reiterated that the code value for XML tagging is to be used via mutual agreement, and is responsive to those in the industry that want to use such.

Mr. Love reviewed decisions made previously by GISB regarding the confirmation of a pre-arranged bid, with a mutually agreeable usage intended by GISB. The FERC then noted that this standard would be supported by all interstate pipelines. He is concerned that similar actions could be taken where it is voiced as mutually agreeable from NAESB, but becomes a requirement for use from FERC to be applied to interstate pipelines.

Ms. Van Pelt responded to some of the points made in the ERCOT letter submitted by Mr. Jones, COO of ERCOT. She noted that lack of an XML tag is not considered a limitation of the EDM standards. NAESB has been open to changing standards for EDM as evidenced by the recommendation for open-PGP to be considered later today. She further noted that GISB has been very receptive to other industries in sharing standards and NAESB will continue to do so. Ms. Kaestner noted that NAESB should be responsive to the market needs and be flexible to considering such requests as noted in the ERCOT letter.

Ms. Davis added that the only quadrant that has adopted the EDM standards is the wholesale gas quadrant. Because of the lack of support for XML in the wholesale gas quadrant, it is premature to adopt XML tagging even on a mutually agreeable basis. It is inappropriate to take any action other than declining as the other quadrants are not active, and the wholesale gas quadrant should not make decisions that may apply to the other quadrants.

Ms. Gussow raised concerns that XML is not yet standardized and would need further information before she could support NAESB standards that incorporated a mutually agreeable XML tag. Mr. Whatley answered several of the raised issues in support of including an XML tag. Ms. McVicker also noted her support of adding the XML tag but was sensitive to the concerns raised by the pipelines that they not be forced to implement XML via adoption of the XML tag on a mutually agreeable basis. Mr. Sappenfield noted that we should support the XML tag to respond to Texas, Pennsylvania and Ontario – all of whom would use this tag. Mr. Spangler further noted that the Dynegey et al comments make it clear that XML standards would not be required for any quadrant until standard transactions are developed, as is shown in the proposed text below:

“[TO BE INCLUDED AT THE BOTTOM OF PDF PAGE 50]

Note 1: The use of "XML" as an input data type, and the exchange of XML transaction sets between trading partners, is mutually agreeable. NAESB Quadrant-specific uses and formats for XML transactions are subject to the creation, testing and adoption of standard NAESB XML transaction sets by respective NAESB Quadrants.“

Ms. Van Pelt noted that anyone can pilot XML and the lack of a tag should not preclude a pilot test between interested trading partners. With the uncertainties of XML standards, it is premature to vote to include XML tags. Mr. Brooks answered several questions and Ms. McKeever of TXU asked that the group support the addition of the XML tag so that more than



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100 companies in Texas would not be affected by using a non-standard mechanism. Mr. Buccigross asked Mr. Novak to chair and advocated that the motion to decline be rejected. He read the definition of "mutually agreeable", recognized the issues raised by the pipelines, and noted that the submitters have no place other than NAESB to go. In response, Ms. Van Pelt noted that the data element is mandatory and that code values do not carry usage specifications. She noted that acting on this request other than to support its adoption to decline is affecting the integrity of the organization's standards.

Mr. Sappenfield does not believe that NAESB has violated any processes by considering this request for a code value for XML. Mr. Scheel supported assertions that the NAESB WGQ cannot act on behalf of the other quadrants, but he noted that the WGQ needs this standard as well. While the data element is mandatory, that does not mean that each party using the standard must support all of the code values. Mr. Brooks again asked that the code value be added for XML.

The vote was taken on the motion to decline the request. The motion failed with 8 in favor of the motion and 14 opposed, (In the voting record in these minutes, the vote was recorded as "Motion 1" for R01020).

[Lunch Break in the Meeting – 12:10 p.m. to 1:10 p.m.]

Mr. Novak and Mr. Sappenfield both identified options to follow that might provide support for the document. Ms. Davis noted that it was troubling to add standards that would address this topic regardless of the version in which it was published. A straw vote was taken on two options: (1) Accept the code value but delay implementation to 1.7 (2 votes in favor), or (2) Provide an encouraging statement on the use of NAESB standards which addresses the request (18 votes in favor), (In the voting record in these minutes, the vote was recorded as "Motion 2a" and "Motion 2b" for R01020).

Ms. Daly provided language with changes noted during the meeting:

"Although XML is not a NAESB standard at this time, the NAESB Wholesale Gas Quadrant (WGQ) is not opposed to other parties using XML in their Electronic Delivery Mechanism implementations. However due to the pending formation of the quadrants that are most immediately impacted, the WGQ of the NAESB Executive Committee directs that request no. R01020 be sent for consideration to other applicable NAESB quadrants when formed. In the interim, parties may use "XML" as an "input data" type, and may exchange XML transaction sets between trading partners, on a mutually agreeable basis."

Ms. McVicker motioned that the language be accepted, seconded by Ms. Burnett. Seventeen votes were in favor; one vote opposed, (In the voting record in these minutes, the vote was recorded as "Motion 3" for R01020). The above language will be placed in a response letter to ERCOT which will be forwarded to the Board and to the Editorial Review Board for approval.

Minimum Technical Guidelines: Make various changes to the NAESB EDM Manual to update the "Minimum Technical Characteristics" for NAESB Web Sites. Mr. Spangler noted several changes that were not present in the recommendation as printed in the materials. The recommendation will be posted with the changes noted as "corrected." A change to refer to generic company names will be made in the recommendation.

Ms. McVicker motioned, which was seconded by Mr. Schwecke to adopt the minimum technical guidelines with the changes noted by Mr. Spangler. Several changes to the recommendation



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were made as a result of the comments made during the discussion. The motion passed with no opposition.

R01016 Accept the modified request to supplement the use of PGP 2.6.2 compliant products, with the IETF developed open standard for PGP, called OpenPGP, as defined in RFC 2440, on a mutually agreed basis (<http://www.ietf.org/rfc/rfc2440.txt>).

Mr. Love made the motion, seconded by Ms. Chezar to adopt the recommendation. The motion passed with no opposition.

R01019 Accept the request to add a new header element, REFNUM, to the EDI/EDM specification. This header element provides trading partners the ability to uniquely identify outbound messages, enabling greater tracking and auditing ability.

Ms. McVicker made the motion, seconded by Mr. Scheel to adopt the recommendation. The motion passed with no opposition.

Transactional Reporting for Order 637:

- Modify name of data element 'Location/Quantity Type Description' in various Capacity Release Data Sets.
- Modify the definition of data element 'Location/Quantity Type Indicator Data' in various Capacity Release Data Sets.
- Modify the definition of data element 'Rate Schedule' in various Capacity Release Data Sets.
- Modify the definition of data elements 'Seasonal End Date' and 'Seasonal Start Date' in various Capacity Release Data Sets.
- Replace data element 'Bidder Affiliate Indicator' and its corresponding code values with 'Affiliate Indicator' and its corresponding code values in various Capacity Release Data Sets.
- Modify code value description for 'Surcharge Indicator' in various Capacity Release Data Sets.
- Revise code value description for 'Validation Code' in Offer Upload Upload Quick Response and Bid Upload Quick Response.
- Add code values for data element 'Data Sets Requested' in the Upload of Request for Download of Posted Datasets and the Response to Upload of Request for Download of Posted Datasets.
- Modify Technical Implementation of Business Process for the Upload of Request for Download of Posted Datasets.
- Modify Executive Summary section of the Capacity Release book
- Modify Business Process and Practices section of the Capacity Release book.

Ms. Davis made the motion, seconded by Ms. Van Pelt to adopt the recommendation. In discussion on the provided comments, it was determined that the AIG comments should be addressed via a separate request, as it was not part of FERC Order 637. The motion passed with no opposition. The IR and Technical Subcommittees via Ms. Davis, Mr. Whatley and Ms. Van Pelt, were thanked for their efforts on this extensive piece of work.



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5. Other Business

An update was provided in the progress to form the retail gas, retail electric and wholesale electric quadrants. The retail electric quadrant should be holding elections shortly. Both the retail gas and retail electric quadrants are working on the annuals plans. Quadrant procedures are to be revised for wholesale gas quadrant. Mr. Novak asked that a task force be set up to address this item. Ms. Van Pelt, Ms. Chezar, Ms. Burnett, Ms. Kaestner and Mr. Scheel (one from each segment) were volunteered to staff the task force. Mr. Scheel will take the lead to prepare the first draft. Ms. Burnett moved, seconded by Ms. McVicker to create the task force. The motion passed with no opposition. .

6. Adjourn

Ms. McVicker made the motion to adjourn, seconded by Mr. Hebenstreit. The motion passed unanimously. The meeting adjourned at 3:40 p.m.



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7. Executive Committee Attendance & Voting

	Present	R01020 Motion 1	R01020 Motion 2a	R01020 Motion 2b	R01020 Motion 3
End Users:					
Bill Hebenstreit	Y	N			
Diane McVicker	Y	N		Y	Y
Dona Gussow	Y	N		Y	Y
Kelly Daly	Y	N		Y	
Tina Burnett	Y	N		Y	Y
LDCs:					
Dolores Chezar	Y	Y		Y	Y
Mike Novak	Y	N		Y	Y
Chris Maturo	Y	N		Y	Y
Rodger Schwecke	Y	Y		Y	Y
Steve Sullivan	Y	N		Y	Y
Pipelines:					
Bill Griffith	Y	Y		Y	Y
Dale Davis	Y	Y		Y	Y
Paul Love for Vacancy	Y	Y		Y	Y
Kim Van Pelt	Y	Y		Y	Y
Mark Gracey	Y	Y		Y	Y
Producers:					
Paul Keeler	Ballot	Y			
Lauren Kaestner	Y	N		Y	Y
Richard Smith	N				
Sheri Hesselington	Y	N		Y	Y
Vacancy					
Services					
Jim Buccigross	Y	N		Y	Y
Carl Caldwell	N				
Keith Sappenfield	Y	N	Y		N
Mark Scheel	Y	N		Y	Y
Leigh Spangler	Y	N	Y		Y
Affirmative Votes		7	2	18	18
Pass?		N	N	Y	Y
Ratification Required?		N	N	N	N



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7. Executive Committee Attendance & Voting

	Minimum Technical Guidelines	R01016 Open PGP	R01019	Transactional Reporting
End Users:				
Bill Hebenstreit				
Diane McVicker	Y	Y	Y	Y
Dona Gussow	Y	Y	Y	Y
Kelly Daly			Y	
Tina Burnett	Y	Y	Y	Y
LDCs:				
Dolores Chezar	Y	Y	Y	Y
Mike Novak	Y	Y	Y	Y
Chris Maturo	Y	Y	Y	Y
Rodger Schwecke	Y	Y	Y	Y
Steve Sullivan	Y	Y	Y	Y
Pipelines:				
Bill Griffith	Y	Y	Y	Y
Dale Davis	Y	Y	Y	Y
Paul Love for Vacancy	Y	Y	Y	Y
Kim Van Pelt	Y	Y	Y	Y
Mark Gracey	Y	Y	Y	Y
Producers:				
Paul Keeler		Y		
Lauren Kaestner	Y	Y	Y	Y
Richard Smith				
Sheri Hesslington	Y	Y	Y	Y
Vacancy				
Services				
Jim Buccigross	Y	Y	Y	Y
Carl Caldwell				
Keith Sappenfield	Y	Y		N
Mark Scheel	Y	Y	Y	Y
Leigh Spangler	Y	Y		Y
Affirmative Votes	19	20	18	18
Pass?	Y	Y	Y	Y
Ratification Required?	Y	Y	Y	Y

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NORTH AMERICAN ENERGY STANDARDS BOARD 2002 ANNUAL PLAN - WHOLESALE GAS QUADRANT

Item Description	Completion ¹	Assignment
Contracts		
1 Complete the development of the contract for purchases and sales of natural gas. Status: Complete with the exception of credit annex.	1 st Qtr	Contracts Subcommittee
2 Develop the Mexican Addendum to the base contract for purchase and sales of natural gas.	3 rd Qtr	Contracts Subcommittee
3 Build an electronic contract for the base contract for purchase and sales of natural gas.	4 th Qtr	Contracts Subcommittee
9 Modify the Funds Transfer Agreement as necessary after several years of use. Status: Subcommittee work completed.	2 nd Qtr	Contracts Subcommittee
Electronic Delivery Mechanisms and Related Activities		
4 Complete technical implementation of Sandia recommendations. Status: Subcommittee work completed.	1 st Qtr	EDM Subcommittee
5 Explore additional possibilities for partnership with the Department of Energy similar to that of the Sandia report.	2 nd Qtr	EC Officers
6 Review and enhance security standards as required by technological changes.	2 nd Qtr	EDM Subcommittee
7 Develop XML technical implementation for base contract and for scheduling documents necessary to complete the pilot program. Status: Subcommittee work suspended.	4 th Qtr	XML Subcommittee
Standards Implementation		
8 Continue the implementation of FERC Order No. 637 standards as specified in the Order 637 work plan defined by the Order 637 GISB Action Subcommittee.	3 rd Qtr	Assigned by the EC
10 Develop standards as necessary to implement the FERC order as a result of Docket No. RM96-1-019 (Partial Day Recalls).	4 th Qtr	Assigned by the EC

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 so as 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.

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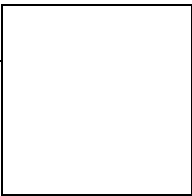
Item Description	Completion ²	Assignment
Provisional Activities³		
Examine report and determine if an "energy day" standard is needed, including assessment of changes to existing GISB standards.		
Determine if a standard transportation services agreement is needed and if so, develop it.		
Determine if a model financial hedging agreement is feasible and if so develop a model financial hedging agreement.		
Develop standards as necessary to implement the FERC order as a result of Docket No. RM01-10-000 (Affiliate Order).		
Program of Standards Maintenance & Fully Staffed Standards Work⁴		
Business Practice Requests	Ongoing	Assigned by the EC on a request by request basis
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 on a request by request basis
Ongoing Interpretations for Clarifying Language Ambiguities	Ongoing	Assigned by the EC on a request by request basis
Ongoing Maintenance of Code Values and Other Technical Matters	Ongoing	Assigned by the EC on a request by request basis

- Notes: (a) Priority is given to action items that are carry-overs from the 2001 Annual Plan.
- (b) Any new activity should be preceded by a request from the submitter after which it will be revisited. The provisional items would only be addressed after a request is submitted or an order is issued by the FERC.

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 so as 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 To the extent that it is determined that any of the provisional activities should be worked upon during the year, the Board has the discretion to modify the annual plan.

⁴ This work is considered routine maintenance and thus the items are not separately numbered.



RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

Requester: Systrends

Request No.: R01016

1. Recommended Action:

- Accept as requested
- Accept as modified below
- Decline

Effect of EC Vote to Accept Recommended Action:

- Change to Existing Practice
- Status Quo

2. TYPE OF MAINTENANCE

Per Request:

- Initiation
- Modification
- Interpretation
- Withdrawal

- Principle (x.1.z)
- Definition (x.2.z)
- Business Practice Standard (x.3.z)
- Document (x.4.z)
- Data Element (x.4.z)
- Code Value (x.4.z)
- X12 Implementation Guide
- Business Process Documentation

Per Recommendation:

- Initiation
- Modification
- Interpretation
- Withdrawal

- Principle (x.1.z)
- Definition (x.2.z)
- Business Practice Standard (x.3.z)
- Document (x.4.z)
- Data Element (x.4.z)
- Code Value (x.4.z)
- X12 Implementation Guide
- Business Process Documentation

3. RECOMMENDATION

SUMMARY: Accept the modified request to supplement the use of PGP 2.6.2 compliant products, with the IETF developed open standard for PGP, called OpenPGP, as defined in RFC 2440, on a mutually agreed basis (<http://www.ietf.org/rfc/rfc2440.txt>).



RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

Requester: Systrends

Request No.: R01016

STANDARDS LANGUAGE:

See attached documentation.

4. SUPPORTING DOCUMENTATION

a. Description of Request:

Original request:

Please consider replacing the requirement to use proprietary PGP 2.6.2 compliant products, with the IETF developed open standard for PGP, called OpenPGP, as defined in RFC 2440 (<http://www.ietf.org/rfc/rfc2440.txt>).

b. Description of Recommendation:

The EDM Subcommittee evaluated a modified request to supplement the use of PGP 2.6.2 compliant products, with the IETF developed open standard for PGP, called OpenPGP, as defined in RFC 2440, on a mutually agreed basis. After considerable discussion, the Request was approved. The vote was not unanimous, and the attendance at the Subcommittee meeting limited.

c. Business Purpose:

OpenPGP is a non-proprietary protocol for encrypting documents using public key cryptography. It is based on PGP as originally developed by Phil Zimmermann. The OpenPGP specification defines standard formats for encrypted messages, signatures, and certificates for exchanging public keys, using open industry standard, freely available software.

Beginning in 1997, the OpenPGP Working Group was formed in the Internet Engineering Task Force (IETF) to define this standard that had formerly been a proprietary product since 1991. Over the past decade, PGP, and later OpenPGP, has become the de-facto standard for cryptography.



RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

Requester: Systrends

Request No.: R01016

By becoming an IETF standard (RFC 2440), OpenPGP may be implemented by any company without paying any licensing fees to anyone.

The OpenPGP Alliance brings companies together to pursue a common goal of promoting the same standard for document encryption and to apply the PKI that has emerged from the OpenPGP community.

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

See minutes of the EDM Subcommittee for 2/28/02, 3/06/02, 3/11/02, and 3/13/02.

CHANGES TO STANDARD 4.3.15

TRADING PARTNERS SHOULD IMPLEMENT ALL SECURITY FEATURES (SECURE AUTHENTICATION, INTEGRITY, PRIVACY, AND NON-REPUDIATION) USING A FILE-BASED APPROACH VIA A COMMERCIALY AVAILABLE IMPLEMENTATION OF PGP 2.6 OR GREATER (OR COMPATIBLE WITH PGP 2.6) OR, ON A MUTUALLY AGREED BASIS, AN OPENPGP COMPATIBLE PRODUCT. TRADING PARTNERS SHOULD ALSO IMPLEMENT BASIC AUTHENTICATION. THESE TECHNOLOGIES SUPPORT ALL OF THE ABOVE SECURITY FEATURES WHILE PROVIDING INDEPENDENCE OF CHOICE OF WEB SERVERS AND BROWSERS. ENCRYPTION KEYS SHOULD BE SELF-CERTIFIED AND THE MEANS OF EXCHANGE SHOULD BE SPECIFIED IN THE TRADING PARTNER AGREEMENT. ENCRYPTION KEYS SHOULD HAVE A LIMITED LIFETIME WHOSE DURATION IS DETERMINED BY THE KEY'S OWNER. A KEY'S END OF LIFE IS EXPRESSED IN THE EXPIRATION DATE FIELD CONTAINED IN EACH PUBLIC KEY. A LIFETIME OF ONE YEAR OR LESS IS RECOMMENDED.

[CHANGES TO TAB 6 OF THE EDM MANUAL]

TECHNICAL IMPLEMENTATION - INTERNET EDI/EDM & BATCH FF/EDM

...

SECURITY

Security Concepts

The security requirements include the current four primary security aspects: data privacy, data

integrity, authentication, and non-repudiation.

- Data privacy: unauthorized parties cannot decipher the content of the data.
- Data integrity: unauthorized parties cannot modify or corrupt the data.
- Authentication: the receiver is certain of the identity of the sender.
- Non-repudiation: the sender cannot deny ownership of the transaction if it was sent with his/her digital signature.

In general, these needs are met by using the Basic Authentication capability of the Web server and the encryption and digital signature capability of the PGP [and OpenPGP](#) security application for securing transactions.

Understanding PGP [or OpenPGP](#)

Pretty Good Privacy (PGP) is the name of the chosen security application. [OpenPGP is the Internet Engineering Task Force standard version of PGP which excludes all patented algorithms, allowing free commercial use of the standard.](#) See the GISB home page for information on software packages to implement the PGP [or OpenPGP](#) security application. [Both OpenPGP and PGP](#) utilizes a public key/private key pair to accomplish secure file transfers. The private key must be known only to the company which generated it. The public key counterpart is shared with trading partners.

Each company must generate its public key and private key pair. The RSA key generation algorithm should be chosen for versions of PGP which offer alternatives. [Implementers of OpenPGP should choose DSA and El Gamal when creating their key pair.](#) The public keys will be distributed using a secure method (eg., courier mail) to the company's trading partners. You must use the utmost care in protecting your private key. If it is compromised, the security is broken. It is recommended that a key size of 1024 be chosen when generating the key pair. This provides a significantly secure transaction.

When a company wishes to send transactions to its trading partner, it will use the partner's public key to encrypt the file. Encryption provides data privacy. Only the private key counterpart can decrypt this file. Hence, the need to guard your private key.

When the sending party encrypts the file, it also uses its own private key to "sign" the transaction. The receiving party can use the sender's public key to verify the signature. The digital signature provides non-repudiation.

Encryption / Digital Signature

Encryption and signatures are applied to files already translated to a GISB standard data format, and before the data is sent to the batch browser." (Use of internal encryption such as X12.58 encryption is outside the scope of GISB encryption standards but does not conflict with PGP.)

Encryption and signatures can be accomplished manually for each file using the on-line PGP [or, on a mutually agreed basis, OpenPGP](#) software, or in an automated (or "batch") fashion using programs to encrypt and sign. Whether encrypting in a manual or automated fashion, it is essential that the correct public key of the trading partner be used to encrypt and just as essential that the correct sender's own private key be used to digitally sign the file.

Digital signatures may also be applied, on a mutually agreeable basis, to the HTTP response by the

receiver of the transaction.

Decryption / Signature Verification

After a transaction is received and processed by the CGI program, it is ready to be decrypted and have its signature verified. PGP [and OpenPGP software](#) will utilize the appropriate key pair when encrypting, signing, and decrypting if given the correct userID in the key ring identifying the trading partner. Upon request for signature verification, the PGP [and OpenPGP](#) software will return a human-readable company name.

It is recommended that all implementors create a process where the name is used to look up the ID of the company in a database table. If the ID is passed along with the decrypted file, a process could be created to verify that the company which sent the transaction corresponds to the company identified within the file, once the data has been translated.

When digital signatures are applied, on a mutually agreeable basis, the HTTP response received by the sender of the transaction may be verified to ensure non-repudiation of receipt of the transaction.

Throughput Considerations

Encryption, digital signing, decryption and signature verification are all very CPU intensive. It is not recommended that decryption or signature verification be performed within the CGI that receives and processes the file. In fact, it would not be a good idea to have these steps performed on the same computer that is attempting to receive transactions at a time close to a deadline. Therefore, it is recommended that the secured or to-be-secured transaction be passed to a separate computer for security processing. This “passing” would likely be accomplished by using the File Transfer Protocol (FTP). The security processing computer should be optimized for CPU and memory.

Implementers of Internet EDM sites should review and evaluate Domain Name Server (DNS) cache refresh intervals so as to ensure trading partner address changes are recognized on a timely basis. A refresh interval of 24 hours or less is common.

Because decryption and signature verification are not handled at the time the file is received, the sender will get an HTTP response of successful transfer but doesn't know if the file can be decrypted by the receiver. Guidelines for communicating the status of the decryption step have been developed.

See Section “Sending Error Notification Transactions” and Table A, “Internet EDM Standard Error Codes and Messages”.

Security Requirements

Basic Authentication

Basic authentication, also known as realm one security, has been defined as one of the security standards for transmission on the Internet. The userid and password will be assigned by the server party according to site standards. The trading party agreement must identify the userid and password for this security as well as procedures for changing the password, if applicable.

PGP [or OpenPGP](#) File Encryption

File encryption of the EDI file is also selected as a security standard for transmission on the Internet. The encryption software employed is required to be compatible with PGP 2.6 or greater (using keys generated with the RSA algorithm) [or the OpenPGP standard, specified in IETF RFC 2440, on a mutually agreed basis](#). [There are freely available software implementations the OpenPGP standard available at http://www.gnupg.org/](#).

General Security Recommendations

Firewall

A firewall is one or more computers running special software which is designed to provide control of communications between two networks. Its purpose is to limit the types of services between these two networks. Often, a company's connection to the Internet is intended to provide several other services to its employees who are connected by an internal network such as a Local Area Network or Wide Area Network (LAN or WAN). Examples of these services include access to the World Wide Web, use of e-mail, use of file transfer capabilities and publishing content intended for viewing by the external world on a Web server. In addition, the internal network will likely have connections to host computers which provide internal services such as file and print sharing, fax and database capabilities. So that availability of these services and confidential internal data are not compromised by unwelcome intruders from the Internet, there should exist a protective mechanism between the internal network and the public Internet, the firewall.

There are two general mechanisms employed by firewalls to provide this control: packet filtering and proxy services. Packet filtering examines important components of the messages such as the address of the sending and target computers and the designator (port number) for a specific application running on the target computer. By doing this, it can prevent access to specific computers or programs on those computers. It can also reject messages from certain computers. Proxy servers have various capabilities. They can act as relay agents that can examine attempted use of certain features within an application thus limiting access to these features. They can also hide (by substituting its own address) the internal addresses of clients communicating with external hosts. This hiding makes it difficult for potential attackers to focus on specific internal hosts.

Because firewalls are designed to deal with a broad set of security issues, which may vary at each organization, and are not specific to the use of HTTP, this guide does not attempt to provide specific implementation information. Deciding on a specific firewall architecture, organizational security policies, and choosing between numerous products may require outside resources to address these issues.

SENDING ERROR NOTIFICATION TRANSACTIONS

Error Notification

When a client sends a file to a server, the server responds to the receipt of the file. Though the file may be received correctly, some further processing must be done, such as decryption and X12 translation. The decryption step which will have a pass/fail status and then the X12 general translation step which will have a pass/fail status. The X12 general translation is merely the check that the file meets the X12 standards and has not been corrupted. Further translation and processing of specific transactions and elements is outside the Internet EDM scope.

When a file passes the decryption step and passes the general translation step, no notifying communication is sent back to the client. However, if either the decryption step or the general translation step fails, an error notification must be sent to the client.

In general, this standard format for error notification applies to the posting of an error message after sender's session has been disconnected. This error notification has the potential of occurring only after the original HTTP Response is returned with an "ok" or a warning (WEDM999 format) for the request-status value, not an error (EEDM999).

Additionally, trading partners are permitted to utilize digitally signed error notifications, if both parties

mutually agree to do so.

Error Notification Data Elements

The data elements for the error notification are the same as those described in Section "Sending Transactions", with the exception of the "input-format" and "input-data" elements. The file containing the data elements for error notification should not be encrypted.

Required Data Elements for Error Notification (listed in the required order)

Data Element Name	Description
from	Common Code Identifier of sending/client company, the server company which detected the error
to	Common Code Identifier of receiving/server company, the client company which sent the data set in error
input-format	"error"
input-data	<p>A text block containing the following items:</p> <p>orig-from The "from" value from the original transmission</p> <p>orig-to The "to" value from the original transmission.</p> <p>orig-input-format The "input-format" value from the original transmission.</p> <p>resp-time-c The "time-c" value from the original response.</p> <p>resp-server-id The "server-id" value from the original response.</p> <p>resp-trans-id The "trans-id" value from the original response.</p> <p>request-status The new status of the transaction based on some process beyond CGI such as decryption; see Table A, "Internet EDM Standard Error Codes and Messages".</p> <p>comments Any comments the original receiving server wishes to include.</p>

Mutually Agreed Upon Data Elements for Error Notification

none defined at this time

Error Notification "input-data" Element Specifications:

The file containing the data elements for error notification should not be encrypted.

All data element names will be in lower case in the Error Notification.

Carriage returns and line feeds will be ignored in all files.

A field delimiter of "*" will be used in the Error Notification. Please refrain from displaying a "*" anywhere else in the error notification so as not to confuse programs that need to parse on this basis.

No spaces should surround the equal sign or the field delimiter.

The required data elements must appear first in the response.

Additional information can be included after the required elements at the server's discretion.

The first occurrence of the field name within the response will contain the value.

If an error notification is given, a GISB Error Notification contains two body parts nested within a multipart/report outer envelope. The first body part contains human readable content in HTML. The second body part contains machine readable content in HTML. Additionally, consenting trading partners can mutually agree to digitally sign error notifications. If digital signatures are used, the multipart/report containing the GISB Error Notification is used to create a digital signature body part, identified by a content-type of application/pgp-signature. Both the multipart/report GISB Error Notification and application/pgp-encrypted digital signature body parts are combined in a multipart/signed envelope.

Error Notification Example:

```
POST /cgi-bin/AS2dispatcher HTTP/1.1
Referer: http://www.get.a.life/upl.htm
Connection: Keep-Alive
User-Agent: brow v0.1 XYZ Corp.
Host: localhost
Accept: image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, */*
Content-type: multipart/form-data; boundary=-----87453838942833
Content-Length: 1958
-----87453838942833
Content-Disposition: form-data; name="from"

234567890
-----87453838942833
Content-Disposition: form-data; name="to"

123456789
-----87453838942833
Content-Disposition: form-data; name="version"

1.4
-----87453838942833
Content-Disposition: form-data; name="receipt-disposition-to"

123456789
-----87453838942833
Content-Disposition: form-data; name="receipt-report-type"

gisb-acknowledgement-receipt
-----87453838942833
Content-Disposition: form-data; name="input-format"

error
-----87453838942833
Content-Disposition: form-data; name="input-data"; filename="c:\temp\error.not"
Content-Type: multipart/report; report-type="gisb-error-notification"; boundary="GISB7868"

--GISB7868
Content-type: text/html

<HTML><HEAD><TITLE>Error Notification</TITLE></HEAD> <BODY><P>
orig-from=123456789*
orig-to=234567890*
orig-input-format=X12*
resp-time-c=19960619102855*
resp-server-id=coolhost*
resp-trans-id=234423897*
```

request-status=EEDM601: Public Key Invalid*
comments=Please contact 1-800-555-1212 for correct public key*
</P> </BODY></HTML>

--GISB7868
Content-Type: text/plain

orig-from=123456789*
orig-to=234567890*
orig-input-format=X12*
resp-time-c=19960619102855*
resp-server-id=coolhost*
resp-trans-id=234423897*
request-status=EEDM601: Public Key Invalid*
comments=Please contact 1-800-555-1212 for correct public key*
--GISB7868--
-----87453838942833---

Signed Error Notification

Content-Type: multipart/signed; micalg=pgp-md5; protocol="application/pgp-signature";
boundary=8760

--8760

Content-Type: multipart/report; report-type="gisb-error-notification"; boundary="GISB7868"

--GISB7868
Content-type: text/html

<HTML><HEAD><TITLE>Error Notification</TITLE></HEAD> <BODY><P>
orig-from=123456789*
orig-to=234567890*
orig-input-format=X12*
resp-time-c=19960619102855*
resp-server-id=coolhost*
resp-trans-id=234423897*
request-status=EEDM601: Public Key Invalid*
comments=Please contact 1-800-555-1212 for correct public key*

</P> </BODY></HTML>

--GISB7868
Content-Type: text/plain

orig-from=123456789*
orig-to=234567890*
orig-input-format=X12*
resp-time-c=19960619102855*
resp-server-id=coolhost*
resp-trans-id=234423897*
request-status=EEDM601: Public Key Invalid*
comments=Please contact 1-800-555-1212 for correct public key*

--GISB7868--
--8760

```
Content-Type: application/pgp-signature
-----BEGIN PGP MESSAGE-----
```

```
Version: 2.6.2
```

```
iQCVAwUBMJrRF2N9oWBghPDJAQE9UQQAItl7LuRVndBjrk4EqYBlb3h5QXIX/L
C//JV5bNvkZIGPIcEmI5iFd9boEgypirHtlREEqLQRkYNoBActFBZmh9GC3C041
WGquMbrbxc+nls1TIKIA08rVi9ig/2Yh7LFrK5Ein57U/W72vgSxLhe/zhdfoIT9BrnH
OxEa44b+EI=
=ndaj
```

```
-----END PGP MESSAGE-----
```

```
--8760--.
```

Pre-validation before Decryption

Proper trapping of the range of decryption process errors listed in Table A (Internet EDM Standard Error Messages and Codes) may require program code which is external to the decryption algorithm. Some versions of the PGP software do not explicitly discriminate between EEDM601, EEDM602, EEDM603, and EEDM699 type errors. Under such a circumstance, files inbound to the decryption process should be preprocessed to trap the errors not identified by the PGP version being used. For example, searching the file for the text strings “BEGIN PGP MESSAGE” and “END PGP MESSAGE” can quickly identify “EEDM602 File not encrypted” and “EEDM603 Encrypted file truncated” type errors when the implemented PGP version only identifies decryption success, invalid public key (EEDM601), and decryption failure (EEDM699).

CHECKLIST OF TESTING STEPS

Purpose

Preliminary steps in testing are helpful before the full batch browser and server applications are completed. This checklist is intended to provide a series of small achievements leading up to the complete solution.

Client/Browser

NOTE: Throughout all transfer tests, compare files stored on the server against the source file to ensure that the file transferred intact. While transferring to another company’s server, you may have to contact that company to send the file back to you so that you can perform the compare.

1. Install an interactive browser. Identify an existing Web server from among GISB compliant servers offering interactive upload for test. See the GISB home page for a list of organizations willing to act as testing partners. These organizations should have a URL complete with the CGI program name to which a tester may send test files. File content does not need to be X12 or other GISB standard format to accomplish this step in testing.
2. Develop or acquire a batch browser that uses multipart for the encoding methodology. Transfer the same test file as in step 1 to the URL not requiring Realm One security.
3. Add Realm One security to your file transfer, and change the URL to the secure URL. Continue transfer tests with your batch browser.
4. Acquire and install PGP [or OpenPGP compliant](#) software. Generate your public and private key pair. Make sure to choose the RSA key generation algorithm [for PGP or DSA and El Gamal](#)

for [OpenPGP](#). Download the test server's test public key. Encrypt your data file using this key. Modify your file transfer to send the encrypted file. Continue transfer tests. Request that the test server contact decrypt your file.

HTTP Server and CGI

1. Install Web server. Establish an Internet connection to your server. Ensure that you have ample storage space for transferred files. Ensure that permissions are granted to the directories.
2. As an optional preliminary step, acquire or develop an HTML page for interactive file upload (sample code is earlier in this document). Test interactive file upload to your own server using an interactive browser.
3. Acquire or develop a CGI program to receive file transfers and process according to GISB standards. Test transfers to your CGI using your batch browser.
4. Transfer a X12 or other GISB standard format dataset to your server and process it through your translator or other appropriate processes.
5. Copy the CGI to a "secure" directory where Realm One security, or basic authentication, is enabled. Using your batch browser, transfer to both URLs, with and without authentication. Thoroughly test using the incorrect userid and password against the secure directory.
6. Generate a second public/private key pair. Use the second key to encrypt a file and transfer the file to your server. Decrypt the file.
7. Once your site security is established, contact a trading partner to test transfers against your server.
8. Test with various file sizes to ensure that your CGI can process small and large files.
9. Request that several other trading partners and/or several clients within your own company transfer concurrently to ensure that your server can withstand the load.
10. Test application with various simulated errors in both file transfers and in PGP or [OpenPGP](#) decryption.

FREQUENTLY ASKED QUESTIONS

As an end user, do I need a continuously connected internet Web server to participate in the Internet EDM in the gas industry, or can I just use a dial-up connection to my ISP and my favorite shrink-wrapped browser software?

An interactive browser connection is not enough to actively participate in the system. It is not necessary to have a private Web server, you can use a service, however the system requires that you have access to a permanent internet connection which is capable of both sending and receiving files (with CGI or BGI) without operator intervention.

If we use ANSI X12.58 encryption do we still need to use PGP [or OpenPGP](#) encryption?

The use of internal encryption such as X12.58 is outside the scope of the GISB encryption standards.



TABLE A - Internet EDM Standard Error Codes And Messages

These errors and warnings are strictly related to problems found in the recipient CGI or decryption levels of processing before translation. Errors and warnings generated by the client batch browser are assumed to be documented at the client site to distinguish them from problems occurring in the recipient CGI or decryption. Numbering schemes and descriptions should aid in this distinction.

Note: For HTTP error codes see the GISB home page for information sources.

EEDM### standard error format with ### representing a numeric value further processing will not take place

WEDM### standard warning format with ### representing a numeric value further processing will take place

The string for the error or warning should appear in the following format:

Validation Code:Description;supplemental message to be defined by the issuing site up to 80 characters

Internet EDM Standard Error Codes and Messages

Validation Code	Description	Data Element	Required vs. Mutually Agreed
EEDM100	Missing "from" Common Code Identifier code	From	required
EEDM101	Missing "to" Common Code Identifier	To	required
EEDM102	Missing input format	input-format	required
EEDM103	Missing data file	input-data	required
EEDM104	Missing transaction set	transaction-set	mutually agreed
EEDM105	Invalid "from" Common Code Identifier	From	required
EEDM106	Invalid "to" Common Code Identifier	To	required
EEDM107	Invalid input format	input-format	required
EEDM108	Invalid transaction set	transaction-set	mutually agreed
EEDM109	No parameters supplied	parameter string	required
EEDM110	Invalid "version"	Version	required
EEDM111	Missing "version"	Version	required
EEDM112	"receipt-security-selection" not mutually agreed	receipt-security-selection	mutually agreed
EEDM113	Invalid "receipt-security-selection"	receipt-security-selection	mutually agreed

GISB Electronic Delivery Mechanism Related Standards

Validation Code	Description	Data Element	Required vs. Mutually Agreed
EEDM114	Missing "receipt-disposition-to"	receipt-disposition-to	required
EEDM115	Invalid "receipt-disposition-to"	receipt-disposition-to	required
EEDM116	Missing "receipt-report-type"	receipt-report-type	required
EEDM117	Invalid "receipt-report-type"	receipt-report-type	required
EEDM118	Missing "receipt-security-selection"	receipt-security-selection	mutually agreed
EEDM601	Public key invalid	file itself	required - security
EEDM602	File not encrypted	file itself	required - security
EEDM603	Encrypted file truncated	file itself	required - security
EEDM604	Encrypted file not signed or signature not matched		
EEDM699	Decryption Error		required for general decryption errors not specifically identified by PGP or OpenPGP messages or exit codes
EEDM701	EDM party not associated with EDI party		required
EEDM702	Data Structure Error		required if the translator does not handle this exception
EEDM703	Data set exchange not established for Trading Partner		required if the translator does not handle this exception
EEDM999	System error		required for general system errors to indicate severe errors in processing at the receiving site
WEDM100	Transaction set sent not mutually agreed	transaction-set	mutually agreed
WEDM102	"receipt-security-selection" not mutually agreed	receipt-security-selection	mutually agreed
WEDM103	Missing "receipt-security-selection"	receipt-security-selection	mutually agreed

[CHANGES TO TAB 4 OF THE EDM MANUAL]

Page 7

Security

Though many decisions as to overall security measures are left to each trading partner and their environment, several security measures were established as standards to ensure a minimum level of confidence in conducting business over the Internet and to provide some uniformity in the implementation of security. Four primary security aspects were considered as vital in providing the level of protection of transactions needed for gas industry commerce: data privacy, data integrity, authentication, and non-repudiation. The FTTF found that these concerns are addressed by the use of encryption and digital signature capability of the Pretty Good Privacy (PGP) security application. Any process used for encryption and decryption compatible with PGP 2.6 (using keys generated with the RSA algorithm) meets the minimum standard to be applied to files transmitted over the Internet. Additionally, the OpenPGP standard, defined by IETF RFC 2440, is a mutually agreed upon, supported alternative to PGP 2.6. Implementers of the PGP product should consider upgrading to PGP version 6.5 for compatibility with the OpenPGP standard and all previous versions of PGP. To prevent unwanted intruders from connecting to the Web sites, basic authentication is the required standard. Additional issues such as firewall security are discussed in the standards, but are considered implementation issues to be addressed by each organization.

Page 16 - Conforming change to Standard 4.3.15

Trading partners should implement all security features (secure authentication, integrity, privacy, and non-repudiation) using a file-based approach via a commercially available implementation of PGP 2.6 or greater (or compatible with PGP 2.6) or, on a mutually agreed basis, an OpenPGP compatible product. Trading partners should also implement basic authentication. These technologies support all of the above security features while providing independence of choice of Web servers and browsers. Encryption keys should be self-certified and the means of exchange should be specified in the trading partner agreement. Encryption keys should have a limited lifetime whose duration is determined by the key's owner. A key's end of life is expressed in the expiration date field contained in each public key. A lifetime of one year or less is recommended.

[CHANGES TO TAB 10 OF THE EDM MANUAL]

Page 2 (Appendix A)

...

PGP Software

PGP is available for a variety of operating systems and platforms. For more information contact Network Associates (<http://www.nai.com>)

OpenPGP Software

The IETF OpenPGP standard is available at <http://www.ietf.org/rfc/rfc2440.txt>

Software implementations of the OpenPGP standard are freely available for commercial use from the Free Software Foundation at <http://www.gnupg.org>.

Time Synchronization

Testing has shown that the clocks on all computer systems drift. It has also been surprising to see

...

Page 3 (Appendix B)

...

Does the HTTP sender match the party who encrypted and signed the file?

The next validation, determining that the HTTP sender is the same as the signer, requires that the following information be available:

The 'from' common code identifier (9 digit D-U-N-S® Number). This is the second field in the HTTP post message sent to the CGI. This information must be preserved from that earlier process and passed to the 'post-CGI' process.

The Pretty Good Privacy (PGP) or OpenPGP User ID associated with that same party

To compare these items a 'table' would most likely be established that would allow the post-CGI process to identify that there is a correlation between these identifiers. The origin of the 'from' identifier is the HTTP POST 'from' field. The origin of the PGP or OpenPGP user ID is the decryption process. The PGP or OpenPGP User ID of the signer is a byproduct of file decryption on a signed file.

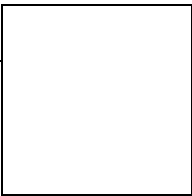
If PGP or OpenPGP software is executed from the command line the output would be presented in a format like:

*Good signature from user "ENRON CORP".
Signature made 1997/05/13 19:30 GMT
Plaintext filename: test3*

If PGP or OpenPGP software is executed using a program interface the User ID that signed the file will be provided in a buffer. Comparing this buffer to the expected User ID would serve to verify this value.

...





RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

Requester: Systrends

Request No.: R01019

1. Recommended Action:

- Accept as requested
- Accept as modified below
- Decline

Effect of EC Vote to Accept Recommended Action:

- Change to Existing Practice
- Status Quo

2. TYPE OF MAINTENANCE

Per Request:

- Initiation
- Modification
- Interpretation
- Withdrawal

Per Recommendation:

- Initiation
- Modification
- Interpretation
- Withdrawal

- Principle (x.1.z)
- Definition (x.2.z)
- Business Practice Standard (x.3.z)
- Document (x.4.z)
- Data Element (x.4.z)
- Code Value (x.4.z)
- X12 Implementation Guide
- Business Process Documentation

- Principle (x.1.z)
- Definition (x.2.z)
- Business Practice Standard (x.3.z)
- Document (x.4.z)
- Data Element (x.4.z)
- Code Value (x.4.z)
- X12 Implementation Guide
- Business Process Documentation

3. RECOMMENDATION

SUMMARY: Accept the request to add a new header element, REFNUM, to the EDI/EDM specification. This header element provides trading partners the ability to uniquely identify outbound messages, enabling greater tracking and auditing ability.

RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

Requester: Systrends

Request No.: R01019

STANDARDS LANGUAGE:

Modify the EDM Manual (pdf page 50, Version 1.5) as follows:

Business Name	Definition	Format	Usage*	Condition
<u>Refnum</u>	<u>Used by the party to assign a unique message identifier for tracing purposes</u>	<u>Maximum 40 character integer value</u>	<u>in Request: MA</u>	<u>May be used by sender to send tracking information to a recipient. Use of this data element is by mutually agreed. This data element is conceptually similar to a Message-ID filed within RFC 822.</u>

Also included are a related error code and a related warning code. Corresponding changes to the EDM Manual (pdf page 83 Version 1.5) are:

Validation Code	Description	Data Element	Required vs. Mutually Agreed
<u>EEDM119</u>	<u>Mutually agreed element, refnum, not present</u>	<u>Refnum</u>	<u>mutually agreed</u>
<u>WEDM104</u>	<u>Element refnum received, not mutually agreed; ignored</u>	<u>Refnum</u>	<u>mutually agreed</u>

4. SUPPORTING DOCUMENTATION

a. Description of Request:

Addition of a new header element, REFNUM, to the EDI/EDM specification. This header element provides trading partners the ability to uniquely identify outbound messages, enabling greater tracking and auditing ability.



RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

Requester: Systrends

Request No.: R01019

b. Description of Recommendation:

The EDM Subcommittee evaluated the addition of a new header element, REFNUM, to the EDI/EDM specification. This header element provides trading partners the ability to uniquely identify outbound messages, enabling greater tracking and auditing ability. After considerable discussion, the Request was approved unanimously.

c. Business Purpose:

The REFNUM header element is defined by the IETF EDIINT AS2 specification as a header data element used to uniquely identify messages. Trading Partners associate a unique reference number with each outbound data exchange in order to track message status. The REFNUM element would be included as an HTTP request data element, along with “To”, “From”, etc.

The Energy Reliability Council of Texas (ERCOT) is currently processing 10 million transactions per month. With this heavy workload it is imperative for ERCOT to maintain automated systems to track the status of a message from application through transport. The REFNUM element provides ERCOT the information necessary to aid logging and tracking of messages.

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

See minutes of the EDM Subcommittee for 2/28/02, 3/06/02, 3/11/02, and 3/13/02.

**RECOMMENDATION TO GISB EXECUTIVE COMMITTEE
REVISED BY THE EXECUTIVE COMMITTEE – 4/18/02**

Requester: Systrends

Request No.: R01020

1. Recommended Action:

- Accept as requested
- Accept as modified below
- Decline

Effect of EC Vote to Accept Recommended Action:

- Change to Existing Practice
- Status Quo

2. TYPE OF MAINTENANCE

Per Request:

- Initiation
- Modification
- Interpretation
- Withdrawal

Per Recommendation:

- Initiation
- Modification
- Interpretation
- Withdrawal

- Principle (x.1.z)
- Definition (x.2.z)
- Business Practice Standard (x.3.z)
- Document (x.4.z)
- Data Element (x.4.z)
- Code Value (x.4.z)
- X12 Implementation Guide
- Business Process Documentation

- Principle (x.1.z)
- Definition (x.2.z)
- Business Practice Standard (x.3.z)
- Document (x.4.z)
- Data Element (x.4.z)
- Code Value (x.4.z)
- X12 Implementation Guide
- Business Process Documentation

3. RECOMMENDATION

SUMMARY: Decline the request to add an identifier for “XML” to the list of possible identifiers within the input-format HTTP request data element of the EDI/EDM specification.

Provide the following language to ERCOT and make available in EC minutes of 4/18/02:

“Although XML is not a NAESB standard at this time, the NAESB Wholesale Gas Quadrant (WGQ) is not opposed to other parties using XML in their Electronic Delivery Mechanism implementations. However due to the pending formation of the quadrants that are most immediately impacted, the WGQ of the NAESB Executive Committee directs that request no. R01020 be sent for consideration to other applicable NAESB quadrants when formed. In the interim, parties may use "XML" as an “input data” type, and may exchange XML transaction sets between trading partners, on a mutually agreeable basis.”

**RECOMMENDATION TO GISB EXECUTIVE COMMITTEE
REVISED BY THE EXECUTIVE COMMITTEE – 4/18/02**

Requester: Systrends

Request No.: R01020

STANDARDS LANGUAGE:

Modify the EDM Manual (pdf page 50, Version 1.5) as follows:

Business Name	Definition	Format	Usage*	Condition
input-data	Descriptor of the data format used for the file transmitted	X12; FF; <u>XML</u> ; error	in Request; M	"X12", "FF", or other GISB standard format indicator used in file transmittal; "error" used in posting back any decryption - related errors. <u>Note: "XML" is not a GISB standard format. Trading Partners that exchange XML documents on a mutually agreeable basis should use "XML".</u>

Also included is a related error code. Corresponding changes to the EDM Manual (pdf page 83 Version 1.5) are:

Validation Code	Description	Data Element	Required vs. Mutually Agreed
<u>EEDM119</u>	<u>Invalid input-format value 'XML' not mutually agreed</u>	<u>input-format</u>	<u>mutually agreed</u>

4. SUPPORTING DOCUMENTATION

a. Description of Request:

Addition of an identifier for “XML” to the list of possible identifiers within the input-format HTTP request data element of the EDI/EDM specification

**RECOMMENDATION TO GISB EXECUTIVE COMMITTEE
REVISED BY THE EXECUTIVE COMMITTEE – 4/18/02**

Requester: Systrends

Request No.: R01020

b. Description of Recommendation:

THE EDM Subcommittee evaluated the addition of an identifier for “XML” to the list of possible identifiers within the input-format HTTP request data element of the EDI/EDM specification. After considerable discussion, the Request was denied. The vote was not unanimous.

c. Business Purpose:

The Energy Reliability Council of Texas (ERCOT) desires to replace an existing FTP process with GISB EDM. However, the current version of GISB EDM does not include formal support for XML within the input format HTTP request data element. The addition of “XML” as recognized, standard identifier within the input-format request data element will permit ERCOT to replace FTP with GISB EDM.

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

See minutes of the EDM Subcommittee for 2/28/02, 3/06/02, 3/11/02, and 3/13/02.



RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

FERC Order 637 – Action Items VIII, IX & XIII

1. Recommended Action:

- Accept as requested
 Accept as modified below
 Decline

Effect of EC Vote to Accept Recommended Action:

- Change to Existing Practice
 Status Quo

2. TYPE OF MAINTENANCE

Per Request:

- Initiation
 Modification
 Interpretation
 Withdrawal
- Principle (x.1.z)
 Definition (x.2.z)
 Business Practice Standard (x.3.z)
 Document (x.4.z)
 Data Element (x.4.z)
 Code Value (x.4.z)
 X12 Implementation Guide
 Business Process Documentation

Per Recommendation:

- Initiation
 Modification
 Interpretation
 Withdrawal
- Principle (x.1.z)
 Definition (x.2.z)
 Business Practice Standard (x.3.z)
 Document (x.4.z)
 Data Element (x.4.z)
 Code Value (x.4.z)
 X12 Implementation Guide
 Business Process Documentation

3. RECOMMENDATION

SUMMARY:

- Modify name of data element 'Location/Quantity Type Description' in various Capacity Release Data Sets.
- Modify the definition of data element 'Location/Quantity Type Indicator Data' in various Capacity Release Data Sets.
- Modify the definition of data element 'Rate Schedule' in various Capacity Release Data Sets.
- Modify the definition of data elements 'Seasonal End Date' and 'Seasonal Start Date' in various Capacity Release Data Sets.
- Replace data element 'Bidder Affiliate Indicator' and its corresponding code values with 'Affiliate Indicator' and its corresponding code values in various Capacity Release Data Sets.
- Modify code value description for 'Surcharge Indicator' in various Capacity Release Data Sets.
- Revise code value description for 'Validation Code' in Offer Upload Upload Quick Response and Bid Upload Quick Response.
- Add code values for data element 'Data Sets Requested' in the Upload of Request for Download of Posted Datasets and the Response to Upload of Request for Download of Posted Datasets.
- Modify Technical Implementation of Business Process for the Upload of Request for Download of Posted Datasets.
- Modify Executive Summary section of the Capacity Release book
- Modify Business Process and Practices section of the Capacity Release book



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DATA DICTIONARY (for new documents and addition, modification or deletion of data elements)

Document Name and No.: **Transactional Reporting – Capacity Release (5.4.z)**
see attached Transactional Reporting - Capacity Release

Document Name and No.: **Transactional Reporting – Firm Transportation (5.4.z)**
see attached Transactional Reporting – Firm Transportation

Document Name and No.: **Transactional Reporting – Interruptible Transportation (5.4.z)**
see attached Transactional Reporting – Interruptible Transportation

Document Name and No.: **Offer Download (5.4.1)**
Bid Download (5.4.2)
Award Download (5.4.3)
Replacement Capacity (5.4.4)
Offer Upload (5.4.7)
Offer Upload Notification (5.4.9)
Operationally Available and Unsubscribed Capacity (5.4.13)
Bid Upload (5.4.18)

Business Name (Abbreviation)	Definition	EBB Usage	EDI/FF Usage	Condition
Location/Quantity Type Indicator Data	<i>Indicates the location type for the referenced capacity/quantity. A code indicating the offer location type for the referenced capacity.</i>			
Location/Quantity Type <i>Indicator</i> Description (Loc/QTI Desc)		C	nu	For EBB, at least one of Location/Quantity Type Indicator or Location/Quantity Type Indicator Description is required.



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Document Name and No.: Offer Download (5.4.1)
 Award Download (5.4.3)
 Offer Upload (5.4.7)
 Offer Upload Notification (5.4.9)

Business Name (Abbreviation)	Definition	Usage	Condition
Rate Schedule	A representation of the rate schedule that is the same as the transportation service provider's tariff abbreviation (if any) for the rate schedule under which service for the offer is being provided.	M	

Document Name and No.: Offer Download (5.4.1)
 Bid Download (5.4.2)
 Award Download (5.4.3)
 Offer Upload (5.4.7)
 Offer Upload Notification (5.4.9)
 Bid Upload (5.4.18)

Business Name (Abbreviation)	Definition	EBB Usage	EDI/FF Usage	Condition
Seasonal End Date (Seasnl End)	End date of the effective period of the sub-term or seasonal releases <u>period</u> within the releases <u>contract</u> term.	C	C	Mandatory when Seasonal Start Date is provided.
Seasonal Start Date (Seasnl St)	Start date of the effective period of the sub-term or seasonal releases <u>period</u> within the releases <u>contract</u> term.	SO	SO	



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Document Name and No.: Offer Upload (5.4.7)

Business Name (Abbreviation)	Definition	EBB Usage	EDI/FF Usage	Condition
Bidder Affiliate Indicator (Bidder Affil)	An indicator which tells whether the bidder is an affiliate of other parties to the offer.	BC	BC	Used only when the Prearranged Deal Indicator indicates prearranged and the transportation service provider requires the releasing shipper to indicate whether the bidder is an affiliate of the releasing shipper or the transportation service provider.

Business Name (Abbreviation)	Definition	EBB Usage	EDI/FF Usage	Condition
<i>Affiliate Indicator (Affil)</i>	<i>An indicator that specifies which parties to the transaction are affiliated.</i>	<i>BC</i>	<i>BC</i>	<i>Used only when the Prearranged Deal Indicator indicates prearranged and the transportation service provider requires the releasing shipper to indicate whether the bidder is an affiliate of the releasing shipper or the transportation service provider.</i>



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Document Name and No.: Bid Upload (5.4.18)

Business Name (Abbreviation)	Definition	EBB Usage	EDI/FF Usage	Condition
Bidder Affiliate Indicator (Bidder Affil)	An indicator which tells whether the bidder is an affiliate of other parties to the offer.	BC	BC	Used when the transportation service provider requires the bidder to indicate whether the bidder is an affiliate of the releasing shipper or the transportation service provider.

Business Name (Abbreviation)	Definition	EBB Usage	EDI/FF Usage	Condition
<i>Affiliate Indicator (Affil)</i>	<i>An indicator that specifies which parties to the transaction are affiliated.</i>	<i>BC</i>	<i>BC</i>	<i>Used when the transportation service provider requires the bidder to indicate whether the bidder is an affiliate of the releasing shipper or the transportation service provider.</i>

Document Name and No.: Offer Upload Notification (5.4.9)

Business Name (Abbreviation)	Definition	EBB Usage	EDI/FF Usage	Condition
Bidder Affiliate Indicator (Bidder Affil)	An indicator which tells whether the bidder is an affiliate of other parties to the offer.	C	C	Mandatory when present and processed in the original Offer Upload

Business Name (Abbreviation)	Definition	EBB Usage	EDI/FF Usage	Condition
<i>Affiliate Indicator (Affil)</i>	<i>An indicator that specifies which parties to the transaction are affiliated.</i>	<i>C</i>	<i>C</i>	<i>Mandatory when present and processed in the original Offer Upload.</i>



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Document Name and No.: Offer Download (5.4.1)
 Bid Download (5.4.2)
 Award Download (5.4.3)

Business Name (Abbreviation)	Definition	EBB Usage	EDI/FF Usage	Condition
Bidder Affiliate Indicator (Bidder Affil)	An indicator which tells whether the bidder is an affiliate of other parties to the offer.	SO	SO	

Business Name (Abbreviation)	Definition	EBB Usage	EDI/FF Usage	Condition
<i>Affiliate Indicator (Affil)</i>	<i>An indicator that specifies which parties to the transaction are affiliated.</i>	<i>SO</i>	<i>SO</i>	

CODE VALUES DICTIONARIES (for addition, modification or deletion of code values)

Document Name and No.: Offer Download (5.4.1)
 Bid Download (5.4.2)
 Award Download (5.4.3)
 Offer Upload (5.4.7)
 Offer Upload Notification (5.4.9)
 Bid Upload (5.4.18)

Surcharge Indicator

Code Value Description	Code Value Definition	Code Value
Rate(s) stated include only rates; no surcharges applicable to this release.	[no definition necessary]	5



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- Document Name and No.: Offer Download (5.4.1)
 Bid Download (5.4.2)
 Award Download (5.4.3)
 Offer Upload (5.4.7)
 Offer Upload Notification (5.4.9)
 Bid Upload (5.4.18)

Bidder Affiliate Indicator

Code Value Description	Code Value Definition	Code Value
Bidder is affiliated with the TSP	[no definition necessary]	TSP
Bidder is affiliated with the Releasing Shipper	[no definition necessary]	RS
Bidder is affiliated with the TSP and the Releasing Shipper	[no definition necessary]	Both
Bidder is affiliated with neither the TSP nor the Releasing Shipper	[no definition necessary]	None

Note: This code value table is to be used only in the EBB implementation.

Affiliate Indicator

<u>Code Value Description</u>	<u>Code Value Definition</u>	<u>Code Value</u>
<u>Both</u>	<u>Bidder is affiliated with the Transportation Service Provider and the releasing shipper.</u>	<u>BOTH</u>
<u>None</u>	<u>For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.</u>	<u>NONE</u>
<u>RS</u>	<u>Bidder is affiliated only with the releasing shipper.</u>	<u>RS</u>
<u>TSP</u>	<u>For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider.</u>	<u>TSP</u>

Note: This code value table is to be used only in the EBB implementation.



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Document Name and No.: Offer Upload Quick Response (5.4.8)

Validation Code (Heading)

Code Value	Code Value Description	Code Value Definition
E193	Missing Bidder Affiliate Indicator	[no definition necessary]
E194	Invalid Bidder Affiliate Indicator	[no definition necessary]
W629	Bidder Affiliate Indicator not processed	[no definition necessary]

Document Name and No.: Bid Upload Quick Response (5.4.19)

Validation Code (Heading)

Code Value	Code Value Description	Code Value Definition
EBDQR124	Missing Bidder Affiliate Indicator	[no definition necessary]
EBDQR125	Invalid Bidder Affiliate Indicator	[no definition necessary]
WBDQR103	Bidder Affiliate Indicator not processed	[no definition necessary]

Document Name and No.: Upload of Request for Download of Posted Datasets (Standard 5.4.14)

Response to Upload of Request for Download of Posted Datasets (5.4.15)

Data Sets Requested

Code Value Description	Code Value Definition	Code Value
<i>Transactional Reporting – Capacity Release</i>	<i>[no definition necessary]</i>	<i>13</i>
<i>Transactional Reporting – Firm Transportation</i>	<i>[no definition necessary]</i>	<i>14</i>
<i>Transactional Reporting – Interruptible Transportation</i>	<i>[no definition necessary]</i>	<i>15</i>



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BUSINESS PROCESS DOCUMENTATION (for addition, modification or deletion of business process documentation language)

Document Name and No.: Upload of Request for Download of Posted Datasets (5.4.14)

TECHNICAL IMPLEMENTATION OF BUSINESS PROCESS

Modify the second paragraph of the Technical Implementation of Business Process for the Upload of Request for Download of Posted Datasets (Standard 5.4.14) as follows:

In the Request, the data requester indicates what type(s) of report(s) are being requested by specifying the **data sets requested** field. This may include any or all of offers, bids, awards, operationally available, unsubscribed capacity, replacement capacity (where applicable), system wide notices, ~~or~~ withdrawals, or transactional reports.

Standards Book: Capacity Release

Executive Summary

Modify the Capacity Release Process / Datasets / EDI Transactions section of the Executive Summary as follows:

The Capacity Release Process / Datasets / EDI Transactions

Following are the capacity release datasets and EDI transactions:

Mandatory Download Datasets

1. Offer Download
2. Bid Download
3. Award Download
4. Withdrawal Download
5. Operationally Available and Unsubscribed Capacity
6. System-Wide Notices
7. Response to Upload of Request for Download of Posted Datasets
8. Replacement Capacity
9. Transactional Reporting – Capacity Release
10. Transactional Reporting – Firm Transportation
11. Transactional Reporting – Interruptible Transportation

Mandatory Additional Datasets

- | | |
|-------------------|---|
| 9.12. | Upload of Request for Download of Posted Datasets |
| 10.13. | Offer Upload |
| 11.14. | Offer Upload Quick Response |
| 12.15. | Offer Upload Final Disposition |



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- ~~13-16.~~ Bid Upload
- ~~14-17.~~ Bid Upload Quick Response
- ~~15-18.~~ Withdrawal Upload
- ~~16-19.~~ Note/Special Instruction

Not Mandatory Additional Datasets

- ~~17-20.~~ Offer Upload Notification

Business Conditional Additional Datasets

- ~~18-21.~~ Offer Upload Bidder Confirmation
- ~~19-22.~~ Offer Upload Bidder Confirmation Quick Response

Add descriptive paragraph for transactional reporting before the section titled “Business Use of Capacity Release Related Transactions” as follows”

Transactional Reporting

Transactional Reporting consists of reports from a transportation service provider detailing information for new or amended transportation service or capacity release transactions. These reports are requested through the use of the Upload of Request for Download of Posted Datasets and Response to Upload of Request for Download of Posted Datasets.

Standards Book: Capacity Release

Business Process and Practices

Modify the first paragraph as follows:

The capacity release datasets include reports from the transportation service provider to a data requester which describe capacity release activity on the transportation service provider’s system *as well as transactional information for transportation service*. Capacity release reports consist of the *following datasets*:

- ~~Offer Download dataset,~~
- ~~Bid Download dataset, the~~
- ~~Award Download dataset, the~~
- Operationally Available and Unsubscribed Capacity,
- ~~replacement Capacity dataset, the Withdrawal Download dataset, and the~~
- ~~System-Wide Notices dataset,~~
- *Transactional Reporting – Capacity Release dataset.*
- *Transactional Reporting – Firm Transportation dataset, and*
- *Transactional Reporting – Interruptible Transportation dataset.*

The data requester specifies what report type(s) as well as the date and time period for the reports by sending an Upload of Request for Download of Posted Datasets request to the transportation service provider. Data requesters may specify one or more types of reports in a request for the specified date period.



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TECHNICAL CHANGE LOG (all instructions to accomplish the recommendation)

Document Name and No.: Offer Download (5.4.1)

- Bid Download (5.4.2)**
- Award Download (5.4.3)**
- Offer Upload (5.4.7)**
- Offer Upload Quick Response (5.4.8)**
- Offer Upload Notification (5.4.9)**
- Upload of Request for Download of Posted Datasets (5.4.14)**
- Reponse to Upload of Request for Download of Posted Datasets (5.4.15)**
- Bid Upload (5.4.18)**
- Bid Upload Quick Respon se (5.4.19)**

Description of Change:
Offer Download (5.4.1)
Data Element Xref to X12
Header REF Segment: Add a new entry at the end of the REF list of data elements (before Header DTM starts) as follows: “SO Affiliate Indicator”
Header N1 Segment: Delete line “SO Bidder Affiliate Indicator” for N1 Transportation Service Provider
Header N1 Segment: Delete line “PER SO Bidder Affiliate Indicator” for N1 Releaser Company Code
Add “PER” in the Segment column for the “SO Releaser Contact Name” row.
X12 Mapping
Header REF Segment (position 050): REF02: Add data element “Affiliate Indicator” to the end of the list of data elements
Header N1 Segment (position 310): N105: Delete data element “Bidder Affiliate Indicator” and all element note text. Mark N105 data element as not used
Transaction Set Tables
“REF Segments (Heading)” table: Insert new row at the bottom of the table as follows: Element Name column: “Affiliate Indicator”; Usage column: “SO”; REF01 column: “ZZ”; REF02 column: “BOTH”, [and on next invisible row] “NONE”, [and on next invisible row] “RS”, [and on next invisible row] “TSP”; Description column: “Bidder is affiliated with the Transportation Service Provider and the releasing shipper.”, [and on next invisible row] “For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.”, [and on next invisible row] “Bidder is affiliated only with the releasing shipper.”, [and on next invisible row] “For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider.”; REF03 column: “not used”, [and on next invisible row] “not used”, [and on next invisible row] “not used”, [and on next invisible row] “not used”
“N1 Segments (Heading)” table: Delete the “N105 Usage” column, the “N105” column, and the “N105 Description” column.
“REF Segments (Detail)” table: For data element Surcharge Indicator, where REF02 = 5, modify Description from “Rate(s) stated include only rates; no surcharges applicable to this release” to “Rate(s) stated include only rates; no surcharges applicable”
Bid Download (5.4.2)
Data Element Xref to X12



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Header REF Segment: Add a new entry at the end of the REF list of data elements (before Header DTM starts) as follows: “SO Affiliate Indicator”
Header N1 Segment: Delete line “SO Bidder Affiliate Indicator” for N1 Transportation Service Provider
Header N1 Segment: Delete line “PER SO Bidder Affiliate Indicator” for N1 Releaser Company Code
Add “PER” in the Segment column for the “SO Releaser Contact Name” row.
X12 Mapping
Header REF Segment (position 050): REF02: Add data element “Affiliate Indicator” to the end of the list of data elements
Header N1 Segment (position 310): N105: Delete data element “Bidder Affiliate Indicator” and all element note text. Mark N105 data element as not used
Transaction Set Tables
“REF Segments (Heading)” table: Insert new row at the bottom of the table as follows: Element Name column: “Affiliate Indicator”; Usage column: “SO”; REF01 column: “ZZ”; REF02 column: “BOTH”, [and on next invisible row] “NONE”, [and on next invisible row] “RS”, [and on next invisible row] “TSP”; Description column: “Bidder is affiliated with the Transportation Service Provider and the releasing shipper.”, [and on next invisible row] “For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.”, [and on next invisible row] “Bidder is affiliated only with the releasing shipper.”, [and on next invisible row] “For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider.”
“N1 Segments (Heading)” table: Delete the “N105 Usage” column, the “N105” column, and the “Description” column.
“REF Segments (Detail)” table: For data element Surcharge Indicator, where REF02 = 5, modify Description from “Rate(s) stated include only rates; no surcharges applicable to this release” to “Rate(s) stated include only rates; no surcharges applicable”
Award Download (5.4.3)
Data Element Xref to X12
Header REF Segment: Add a new entry at the end of the REF list of data elements (before Header DTM starts) as follows: “SO Affiliate Indicator”
Header N1 Segment: Delete line “SO Bidder Affiliate Indicator” for N1 Transportation Service Provider
Header N1 Segment: Delete line “SO Bidder Affiliate Indicator” for N1 Releaser Company Code
X12 Mapping
Header REF Segment (position 050): REF02: Add data element “Affiliate Indicator” to the end of the list of data elements
Header N1 Segment (position 310): N105: Delete data element “Bidder Affiliate Indicator” and all element note text. Mark N105 data element as not used
Transaction Set Tables



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<p>“REF Segments (Heading)” table: Insert new row at the bottom of the table as follows: Element Name column: “Affiliate Indicator”; Usage column: “SO”; REF01 column: “ZZ”; REF02 column: “BOTH”, [and on next invisible row] “NONE”, [and on next invisible row] “RS”, [and on next invisible row] “TSP”; Description column: “Bidder is affiliated with the Transportation Service Provider and the releasing shipper.”, [and on next invisible row] “For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.”, [and on next invisible row] “Bidder is affiliated only with the releasing shipper.”, [and on next invisible row] “For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider.”; REF03 column: “not used”, [and on next invisible row] “not used”, [and on next invisible row] “not used”, [and on next invisible row] “not used”</p>
<p>“N1 Segments (Heading)” table: Delete the “N105 Usage” column, the “N105” column, and the “Description” column.</p>
<p>“REF Segments (Detail)” table: For data element Surcharge Indicator, where REF02 = 5, modify Description from “Rate(s) stated include only rates; no surcharges applicable to this release” to “Rate(s) stated include only rates; no surcharges applicable”</p>
<p>Offer Upload (5.4.7)</p>
<p>Data Element Xref to X12</p>
<p>Header REF Segment: Add a new entry at the end of the REF list of data elements (before Header DTM starts) as follows: “BC Affiliate Indicator”</p>
<p>Header N1 Segment: Delete line “C Bidder Affiliate Indicator” for N1 Transportation Service Provider</p>
<p>Header N1 Segment: Delete line “BC Bidder Affiliate Indicator” for N1 Releaser Company Code</p>
<p>X12 Mapping</p>
<p>Header REF Segment (position 050): REF02: Add data element “Affiliate Indicator” to the end of the list of data elements</p>
<p>Header N1 Segment (position 310): N105: Delete data element “Bidder Affiliate Indicator” and all element note text. Mark code value “23 Affiliate” as not used. Mark N105 data element as not used</p>
<p>Transaction Set Tables</p>
<p>“REF Segments (Heading)” table: Insert new row between Recall/Reput Indicator row and Releasing Shipper Lesser Quantity Indicator row as follows: Element Name column: “Affiliate Indicator”; Usage column: “BC”; REF01 column: “ZZ”; REF02 column: “BOTH”, [and on next invisible row] “NONE”, [and on next invisible row] “RS”, [and on next invisible row] “TSP”; Description column: “Bidder is affiliated with the Transportation Service Provider and the releasing shipper.”, [and on next invisible row] “For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.”, [and on next invisible row] “Bidder is affiliated only with the releasing shipper.”, [and on next invisible row] “For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider.”; REF03 column: “not used”, [and on next invisible row] “not used”, [and on next invisible row] “not used”, [and on next invisible row] “not used”</p>
<p>“REF Segments (Detail)” table: For data element Surcharge Indicator, where REF02 = 5, modify Description from “Rate(s) stated include only rates; no surcharges applicable to this release” to “Rate(s) stated include only rates; no surcharges applicable”</p>
<p>Offer Upload Quick Response (5.4.8)</p>
<p>Transaction Set Tables</p>
<p>“Errors and Warnings (Heading)” table: E193: Change “Missing Bidder Affiliate Indicator” to “Missing Affiliate Indicator”</p>



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<p>“Errors and Warnings (Heading)” table: E194: Change “Invalid Bidder Affiliate Indicator” to “Invalid Affiliate Indicator”</p>
<p>“Errors and Warnings (Heading)” table: W629: Change “Bidder Affiliate Indicator not processed” to “Affiliate Indicator not processed”</p>
<p>Offer Upload Notification (5.4.9)</p>
<p>Data Element Xref to X12</p>
<p>Header REF Segment: Add a new entry at the end of the REF list of data elements (before Header DTM starts) as follows: “C Affiliate Indicator”</p>
<p>Header N1 Segment: Delete line “C Bidder Affiliate Indicator” for N1 Transportation Service Provider</p>
<p>Header N1 Segment: Delete line “C Bidder Affiliate Indicator” for N1 Releaser Company Code</p>
<p>X12 Mapping</p>
<p>Header REF Segment (position 050): REF02: Add data element “Affiliate Indicator” to the end of the list of data elements</p>
<p>Header N1 Segment (position 310): N105: Delete data element “Bidder Affiliate Indicator” and all element note text. Mark code value “23 Affiliate” as not used. Mark N105 data element as not used</p>
<p>Transaction Set Tables</p>
<p>“REF Segments (Heading)” table: Insert new row at the bottom of the table as follows: Element Name column: “Affiliate Indicator”; Usage column: “C2”; REF01 column: “ZZ”; REF02 column: “BOTH”, [and on next invisible row] “NONE”, [and on next invisible row] “RS”, [and on next invisible row] “TSP”; Description column: “Bidder is affiliated with the Transportation Service Provider and the releasing shipper.”, [and on next invisible row] “For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.”, [and on next invisible row] “Bidder is affiliated only with the releasing shipper.”, [and on next invisible row] “For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider.”; REF03 column: “not used”, [and on next invisible row] “not used”, [and on next invisible row] “not used”, [and on next invisible row] “not used”</p>
<p>“REF Segments (Detail)” table: For data element Surcharge Indicator, where REF02 = 5, modify Description from “Rate(s) stated include only rates; no surcharges applicable to this release” to “Rate(s) stated include only rates; no surcharges applicable”</p>
<p>Upload of Request for Download of Posted Datasets (5.4.14)</p>
<p>Transaction Set Tables</p>
<p>“LIN 235/234 Pairs (Detail)” table: For data element Data Sets Requested, add the following code values (Elem 234 column) and code value descriptions (Description column) in numerical order by code value: “13 Transactional Reporting – Capacity Release”, “14 Transactional Reporting – Firm Transportation”, “15 Transactional Reporting – Interruptible Transportation”</p>
<p>Response to Upload of Request for Download of Posted Datasets (5.4.15)</p>
<p>X12 Mapping</p>
<p>Detail REF Segment (position 140): REF01: Mark code value T1 as used. Add code value note “Transactional Reporting – Capacity Release” [next line] “Mandatory when LIN 234 element = ‘13’”</p>
<p>Detail REF Segment (position 140): REF01: Mark code value T2 as used. Add code value note “Transactional Reporting – Firm Transportation” [next line] “Mandatory when LIN 234 element = ‘14’”</p>
<p>Detail REF Segment (position 140): REF01: Mark code value T3 as used. Add code value note “Transactional Reporting – Interruptible Transportation” [next line] “Mandatory when LIN 234 element = ‘15’”</p>
<p>Transaction Set Tables</p>



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<p>“LIN 235/234 Pairs (Detail)” table: For data element Data Sets Requested, add the following code values (Elem 234 column) and code value descriptions (Description column) in numerical order by code value: “13 Transactional Reporting – Capacity Release”, “14 Transactional Reporting – Firm Transportation”, “15 Transactional Reporting – Interruptible Transportation”</p>
<p>Bid Upload (5.4.18)</p>
<p>Data Element Xref to X12</p>
<p>Header REF Segment: Add a new entry at the end of the REF list of data elements (before Header DTM starts) as follows: “BC Affiliate Indicator”</p>
<p>Header N1 Segment: Delete line “BC Bidder Affiliate Indicator” for N1 Transportation Service Provider</p>
<p>Header N1 Segment: Delete line “BC Bidder Affiliate Indicator” for N1 Releaser Company Code</p>
<p>X12 Mapping</p>
<p>Header REF Segment (position 050): REF02: Add data element “Affiliate Indicator” to the end of the list of data elements</p>
<p>Header N1 Segment (position 310): N105: Delete data element “Bidder Affiliate Indicator” and all element note text. Mark N105 data element as not used.</p>
<p>Transaction Set Tables</p>
<p>“REF Segments (Heading)” table: Insert new row between Offer Number row and Special Terms and Miscellaneous Notes row as follows: Element Name column: “Affiliate Indicator”; Usage column: “BC”; REF01 column: “ZZ”; REF02 column: “BOTH”, [and on next invisible row] “NONE”, [and on next invisible row] “RS”, [and on next invisible row] “TSP”; Description column: “Bidder is affiliated with the Transportation Service Provider and the releasing shipper.”, [and on next invisible row] “For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.”, [and on next invisible row] “Bidder is affiliated only with the releasing shipper.”, [and on next invisible row] “For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider.”</p>
<p>“REF Segments (Detail)” table: For data element Surcharge Indicator, where REF02 = 5, modify Description from “Rate(s) stated include only rates; no surcharges applicable to this release” to “Rate(s) stated include only rates; no surcharges applicable”</p>
<p>Bid Upload Quick Response (5.4.19)</p>
<p>Transaction Set Tables</p>
<p>“Errors and Warnings (Heading)” table: EDBQR124: Change “Missing Bidder Affiliate Indicator” to “Missing Affiliate Indicator”</p>
<p>“Errors and Warnings (Heading)” table: EBDQR125: Change “Invalid Bidder Affiliate Indicator” to “Invalid Affiliate Indicator”</p>
<p>“Errors and Warnings (Heading)” table: WBDQR103: Change “Bidder Affiliate Indicator not processed” to “Affiliate Indicator not processed”</p>

4. SUPPORTING DOCUMENTATION

a. Description of Request:

b. Description of Recommendation:



RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

FERC Order 637 – Action Items VIII, IX & XIII

Information Requirements Subcommittee

See minutes for the following Information Requirements Subcommittee meetings:

- November 14 – 15, 2001
- December 12 – 13, 2001
- January 09 – 10, 2001
- February 20 – 21, 2001
- March 13 – 14, 2001
- April 17 – 18, 2001
- May 15 – 16, 2001
- June 12 – 13, 2001
- July 17 – 18, 2001
- August 21 – 22, 2001
- September 18 – 19, 2001
- October 09 – 10, 2001
- November 13 – 14, 2001
- December 11 – 12, 2001
- January 22 – 23, 2002

Technical Subcommittee

See minutes for the following Technical Subcommittee meetings:

- February 25, 2002
- March 18, 2002

Sense of the Room: March 18, 2002 8 In Favor 0 Opposed

Segment Check (if applicable):

In Favor : ___End-Users ___LDCs ___Pipelines ___Producers ___Services
 Opposed : ___End-Users ___LDCs ___Pipelines ___Producers
 Services

c. Business Purpose:

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

TECHNICAL IMPLEMENTATION OF BUSINESS PROCESS

Transactional Reporting - Capacity Release is a report from a **transportation service provider** detailing contract information for new or amended capacity release transactions. The report identifies two entities with a contractual relationship with the transportation service provider: the **contract holder** and the releasing entity (**releaser company code**). The agreement between the contract holder and the transportation service provider is known as the **service requester contract**; it is the result of the capacity being released. The agreement between the releasing entity and the transportation service provider is known as the **releaser contract number**; it is the contract that the releasing entity had with the transportation service provider prior to the capacity being released.

Contract status indicates whether the reported service requester contract is new or amended. **Amendment reporting** specifies whether data reported for an amendment to a contract contains all applicable contract data or only changes to the previous contract data. For amended contracts reporting changes only via EDI/EDM or FF/EDM, in addition to the mandatory data elements, only those data elements that have changed from the previous contract data should be sent. It is, however, permissible for a transportation service provider to display on their Web site, at their discretion, additional data elements within this dataset, provided they are differentiated from the mandatory or changed data elements.

When reporting changes only and the information that is being reported is specific to a location(s), the corresponding location data should be sent.

Contract begin date and **contract end date** pertain to the dates on which the service requester contract is effective. Contract end date is reported without respect to rollover or evergreen provisions, which are contained in the Index of Customers, should they exist. **Contract entitlement begin date** and **contract entitlement begin time** refer to the date and time when service can first be provided under a service requester contract. The default for contract entitlement begin date is the contract begin date. The default for contract entitlement begin time is the beginning of the gas day on the contract entitlement begin date. **Contract entitlement end date** and **contract entitlement end time** refer to the date and time when service can last be provided under a service requester contract without respect to rollover or evergreen provision(s). The default for contract entitlement end date is the contract end date. The default for contract entitlement end time is the end of the gas day on the contract entitlement end date.

The data set accommodates the reporting of multiple occurrences of entitlement date/time periods for a service requester contract. This can be accomplished by pairing the contract entitlement begin time and contract entitlement end time to describe discrete period(s) of entitlement during the gas day. Furthermore, the contract entitlement begin date and contract entitlement end date can be used together to describe discrete period(s) of entitlement within the contract duration.

The **rate reporting level** specifies the level at which the rate data is presented. Rate and surcharge information is reported using various data elements such as **rate charged**, **surcharge indicator**, **rate identification code**, and **reservation rate basis**. When the rate and surcharge information cannot be described/reported at reporting time using the data elements in the dataset, it should be communicated in **special terms and miscellaneous notes**.

There may be multiple values for the **posting date** and **posting time** in a given transmission.

SAMPLE PAPER TRANSACTION

Transportation Service Provider:	Enormous Pipeline (246810121)
Amendment Reporting:	All Data
Contract Holder:	My Gas Shipper (987654321)
Service Requester Contract:	K1234
Contract Begin Date:	April 1, 2002
Contract End Date:	April 6, 2006
Releaser Company:	Was My Gas Shipper (123456789)
Releaser Contract Number:	K4321
Affiliate Indicator:	None
Rate Reporting Level:	Contract
Rate Form/Type:	Reservation Only
Reservation Rate Basis:	Per Day
Bidder Designation of Bidding Basis:	Dollar
Posting Date:	March 15, 2002
Posting Time:	9:00 a.m.
Contract Status:	New
Contract Entitlement Begin Date:	April 1, 2002
Contract Entitlement Begin Time:	9:00 a.m.
Contract Entitlement End Date:	April 1, 2006
Contract Entitlement End Time:	9:00 a.m.
Location/Quantity Type:	Receipt to Delivery
Maximum Tariff Rate:	\$2.75
Rate ID:	Reservation
Surcharge Indicator:	Rate(s) stated include(s) only rates; no surcharges applicable
Rate Charged:	\$2.75

<u>Receipt Location</u>	<u>Contractual Quantity – Location</u>	<u>Delivery Location</u>	<u>Contractual Quantity – Location</u>
0000DRN01	1000	0000DRN02	1000
0000DRN03	1500	0000DRN04	1500
0000DRN05	2000	0000DRN06	2000

DATA DICTIONARY

Standard 5.4.x

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Affiliate Indicator Data	An indicator that specifies which parties to the transaction are affiliated.	BEDG			
Affiliate Indicator (Affil)		BEDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Affiliate Indicator or Affiliate Indicator Description is required.
Affiliate Indicator Description (Affil Desc)		BEDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Affiliate Indicator or Affiliate Indicator Description is required.
Amendment Reporting Data	Specifies whether data reported for an amendment to a contract contains all applicable contract data or only changes to the previous contract data.	TSPDG			
Amendment Reporting (Amend Rptg)		TSPDG	C		For EBB, at least one of Amendment Reporting or Amendment Reporting Description is required.

¹ The EDI/FF usages do not appear in the data dictionary. The column is retained and the usages will be provided when the EDI and FF implementation instructions are published.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage¹	Condition
Amendment Reporting Description (Amend Rptg Desc)		TSPDG	C		For EBB, at least one of Amendment Reporting or Amendment Reporting Description is required.
Bidder Designation of Bidding Basis Data	Indicates bidding basis used by the bidder.	RDG			
Bidder Designation of Bidding Basis (Bidder Bid Basis)		RDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, at least one of Bidder Designation of Bidding Basis or Bidder Designation of Bidding Basis Description is required.
Bidder Designation of Bidding Basis Description (Bidder Bid Basis Desc)		RDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, at least one of Bidder Designation of Bidding Basis or Bidder Designation of Bidding Basis Description is required.
Contract Begin Date (K Beg Date)	The date on which the Service Requester Contract becomes effective.	CDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contract End Date (K End Date)	The last date on which the Service Requester Contract is effective without regard to evergreen or rollover provision(s).	CDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage¹	Condition
Contract Entitlement Begin Date (K Ent Beg Date)	The gas day on which service can first be provided under the Service Requester Contract.	CEDG	M		Default is Contract Begin Date.
Contract Entitlement Begin Time (K Ent Beg Time)	The time at which service can first be provided under the Service Requester Contract on the Contract Entitlement Begin Date.	CEDG	M		Default is beginning of the gas day on the Contract Entitlement Begin Date.
Contract Entitlement End Date (K Ent End Date)	The gas day on which service can last be provided under the Service Requester Contract without regard to evergreen or rollover provision(s).	CEDG	M		Default is Contract End Date.
Contract Entitlement End Time (K Ent End Time)	The time at which service can last be provided under the Service Requester Contract on the Contract Entitlement End Date.	CEDG	M		Default is end of the gas day on the Contract Entitlement End Date.
Contract Holder Data	The entity with the contractual relationship with the transportation service provider.	BEDG			
Contract Holder * (K Holder)		BEDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contract Holder Name *** (K Holder Name)		BEDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contract Status Data	Specifies whether data reported is for a new contract or for an amendment to a contract.	CSDG			
Contract Status (K Stat)		CSDG	C		For EBB, at least one of Contract Status or Contract Status Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Contract Status Description (K Stat Desc)		CSDG	C		For EBB, at least one of Contract Status or Contract Status Description is required.
Contractual Quantity – Contract (K Qty - K)	Reflects either: the maximum daily contract quantity under the specified firm transportation service contract or the maximum storage quantity under the specified firm storage service contract.	CDG	C		At least one of Contractual Quantity – Contract or Contractual Quantity - Location is mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contractual Quantity – Location (K Qty - Loc)	Reflects either: the maximum daily contract quantity for firm transportation service at the specified location or the maximum storage quantity for firm storage service at the specified location.	LDG	C		At least one of Contractual Quantity – Contract or Contractual Quantity - Location is mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 1 Data	The code which uniquely corresponds to Gas Transaction Point 1.	LDG			
Gas Transaction Point 1 Code * ** (GTP 1)		LDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 1 Proprietary Code (GTP 1 Prop)		LDG	C		Mandatory when Gas Transaction Point 1 Code is not present and one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. <p>When this field uniquely identifies the segment, a proprietary segment identifier may be used.</p>

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Gas Transaction Point 1 Description (GTP 1 Desc)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point (not a standard).	LDG	C		For EBB, mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 1 Zone (GTP 1 Zn)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point zone (not a standard).	LDG	SO		
Gas Transaction Point 2 Data	The code which uniquely corresponds to Gas Transaction Point 2.	LDG			
Gas Transaction Point 2 Code * ** (GTP 2)		LDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Segment Indicator indicates the segment is defined by two points, or Location/Quantity Type Indicator is: <ul style="list-style-type: none"> 'Receipt point(s) to delivery point(s) quantity', or 'Mainline quantity' and one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Gas Transaction Point 2 Proprietary Code (GTP 2 Prop)		LDG	C		Mandatory when Gas Transaction Point 2 Code is not present and one of the following conditions is met: <ul style="list-style-type: none"> • Segment Indicator indicates the segment is defined by two points, or • Location/Quantity Type Indicator is: <ul style="list-style-type: none"> ○ 'Receipt point(s) to delivery point(s) quantity', or ○ 'Mainline quantity' and one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 2 Description (GTP 2 Desc)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point (not a standard).	LDG	C		For EBB, mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • the segment is defined by two points, or • Location/Quantity Type Indicator is: <ul style="list-style-type: none"> ○ 'Receipt point(s) to delivery point(s) quantity', or ○ 'Mainline quantity' and one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 2 Zone (GTP 2 Zn)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point zone (not a standard).	LDG	SO		
Location/Quantity Type Indicator Data	Indicates the location type for the referenced capacity/quantity.	RCDG			

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Location/Quantity Type Indicator (Loc/QTI)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Location/Quantity Type Indicator or Location/Quantity Type Indicator Description is required.
Location/Quantity Type Indicator Description (Loc/QTI Desc)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Location/Quantity Type Indicator or Location/Quantity Type Indicator Description is required.
Maximum Tariff Rate (Max Trf Rate)	The maximum tariff rate for the Rate Identification Code specified.	RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Maximum Tariff Rate or Maximum Tariff Rate Reference is required. For EBB, when one of these conditions is met, at least one of Maximum Tariff Rate, Maximum Tariff Rate Reference or Maximum Tariff Rate Reference Description is required.
Maximum Tariff Rate Reference Data	A reference to maximum tariff rate data.	RCDG			

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Maximum Tariff Rate Reference (Max Trf Rate Ref)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Maximum Tariff Rate or Maximum Tariff Rate Reference is required. For EBB, when one of these conditions is met, at least one of Maximum Tariff Rate, Maximum Tariff Rate Reference or Maximum Tariff Rate Reference Description is required.
Maximum Tariff Rate Reference Description (Max Trf Rate Ref Desc)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Maximum Tariff Rate, Maximum Tariff Rate Reference or Maximum Tariff Rate Reference Description is required.
Offer Number (Offer No)	A unique identifier within each transportation service provider identifying the capacity being offered. The offer can also be described as package, parcel, or release of capacity.	CDG	SO		
Posting Date (Post Date)	The date on which the service provider posts this information.	DDG	M		
Posting Time (Post Time)	The time on which the service provider posts this information.	DDG	M		

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage¹	Condition
Rate Charged (Rate Chgd)	The rate charged for the Rate Identification Code or Surcharge Identification Code specified.	RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Rate Form/Type Code Data	A code indicating the form or type of rate.	RDG			
Rate Form/Type Code (Rate Form/Type)		RDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Rate Form/Type Code or Rate Form/Type Code Description is required.
Rate Form/Type Code Description (Rate Form/Type Desc)		RDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Rate Form/Type Code or Rate Form/Type Code Description is required.
Rate Identification Code Data	A code which identifies a specific rate.	RCDG			
Rate Identification Code (Rate ID)		RCDG	C		Mandatory when Rate Charged is present. For EBB, when this condition is met, at least one of Rate Identification Code or Rate Identification Code Description is required.
Rate Identification Code Description (Rate ID Desc)		RCDG	C		Mandatory when Rate Charged is present. For EBB, when this condition is met, at least one of Rate Identification Code or Rate Identification Code Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Rate Reporting Level Data	Indicates the level at which rates are reported.	RDG			
Rate Reporting Level (Rpt Lvl)		RDG	C		<p>Mandatory when one of the following conditions is met:</p> <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. <p>For EBB, when one of these conditions is met, at least one of Rate Reporting Level or Rate Reporting Level Description is required.</p>
Rate Reporting Level Description (Rpt Lvl Desc)		RDG	C		<p>Mandatory when one of the following conditions is met:</p> <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. <p>For EBB, when one of these conditions is met, at least one of Rate Reporting Level or Rate Reporting Level Description is required.</p>
Rate Schedule (Rate Sch)	A representation of the rate schedule that is the same as the transportation service provider's tariff abbreviation (if any) for the rate schedule under which service is being provided.	RDG	SO		
Releaser Company Data	The legal entity which signed the contract with the transportation service provider.	BEDG			
Releaser Company Code * (Releaser)		BEDG	C		<p>Mandatory when one of the following conditions is met:</p> <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Releaser Company Name *** (Releaser Name)		BEDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Releaser Contract Number (Rel K)	A unique identifier assigned by each transportation service provider identifying the contract (applicable to the offer) between the transportation service provider and the releasing shipper.	CDG	M		
Reservation Rate Basis Data	A code field indicating the basis on which the reservation rate is expressed.	RDG			
Reservation Rate Basis (Res Rate Basis)		RDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Reservation Rate Basis or Reservation Rate Basis Description is required.
Reservation Rate Basis Description (Res Rate Basis Desc)		RDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Reservation Rate Basis or Reservation Rate Basis Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage¹	Condition
Seasonal End Date (Seasnl End)	End date of the effective period of the sub-term or seasonal period within the contract term.	RDG	C		Mandatory when Seasonal Start Date is provided and one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Seasonal Start Date (Seasnl St)	Start date of the effective period of the sub-term or seasonal period within the contract term.	RDG	SO		
Segment Indicator (Segment)	A code which indicates whether Gas Transaction Point 1 uniquely identifies the segment.	LDG	nu		Mandatory when Location/Quantity Type Indicator is 'Segment(s) quantity' and one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Service Requester Contract (Svc Req K)	This is the contract under which service is being requested.	CDG	M		
Special Terms & Miscellaneous Notes (Terms/Notes)	Other terms which are either offered or required.	RDG	SO		
Surcharge Identification Code Data	A code which identifies a specific surcharge.	RCDG			
Surcharge Identification Code (Surchg ID)		RCDG	C		Mandatory when Surcharge Indicator specifies that surcharge detail is provided and one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when these conditions are met, at least one of Surcharge Identification Code or Surcharge Identification Code Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Surcharge Identification Code Description (Surchg ID Desc)		RCDG	C		Mandatory when Surcharge Indicator specifies that surcharge detail is provided and one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when these conditions are met, at least one of Surcharge Identification Code or Surcharge Identification Code Description is required.
Surcharge Indicator Data	Indicates whether surcharges are applicable, and if so, where surcharge information is located.	RCDG			
Surcharge Indicator (Surchg Ind)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Surcharge Indicator or Surcharge Indicator Description is required.
Surcharge Indicator Description (Surchg Ind Desc)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Surcharge Indicator or Surcharge Indicator Description is required.
Total Surcharges (Tot Surchg)	Contains the total of all applicable surcharge(s).	RCDG	C		Mandatory when Surcharge Indicator specifies that a total of all applicable surcharge(s) is provided and one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Transportation Service Provider Data	A code which uniquely identifies the transportation service provider.	TSPDG			
Transportation Service Provider * (TSP)		TSPDG	M		
Transportation Service Provider Name (TSP Name)		TSPDG	M		

* Indicates Common Code

** When a Transportation Service Provider's proprietary location code is employed pursuant to this standard, the parties agree that nominations, confirmations, scheduled quantities, and capacity release documents employing such code should be for one gas day at a time, and used only until there is a verified common code for the point associated with the proprietary location code. This would include daily nominations over a weekend. Within two months following the availability of the location the parties should employ the common code and no longer employ the proprietary code for identifying such location in the data sets related to the identified standards.

*** The Transportation Service Provider's version of the name.

DATA GROUPS:

- BEDG Business Entity Data Group
- CDG Contract Data Group
- CEDG Contract Entitlement Data Group
- CSDG Contract Status Data Group
- DDG Date Data Group
- LDG Location Data Group
- RCDG Rate Charged Data Group
- RDG Rate Data Group
- TSPDG Transportation Service Provider Data Group

CODE VALUES DICTIONARY

Affiliate Indicator

Code Value Description	Code Value Definition	Code Value
Both	Bidder is affiliated with the Transportation Service Provider and the releasing shipper.	BOTH
None	For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.	NONE
RS	Bidder is affiliated only with the releasing shipper.	RS
TSP	For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider.	TSP

Amendment Reporting

Code Value Description	Code Value Definition	Code Value
All Data	[no definition necessary]	A
Changes Only	[no definition necessary]	C

Bidder Designation of Bidding Basis

Code Value Description	Code Value Definition	Code Value
Absolute dollars and cents per unit basis	[no definition necessary]	A
Percentage of maximum tariff rate	[no definition necessary]	P

Contract Status

Code Value Description	Code Value Definition	Code Value
Amended	[no definition necessary]	A
New	[no definition necessary]	N

Location/Quantity Type Indicator

Code Value Description	Code Value Definition	Code Value
Delivery point(s) quantity		2
Mainline quantity		5

Code Value Description	Code Value Definition	Code Value
Receipt point(s) quantity		1
Receipt point(s) to delivery point(s) quantity		3
Segment quantity		4
Storage injection quantity		7
Storage quantity		6
Storage withdrawal quantity		8

Maximum Tariff Rate Reference

Code Value Description	Code Value Definition	Code Value
Matrix	[no definition necessary]	M
Tariff	[no definition necessary]	T

Rate Form/Type Code

Code Value Description	Code Value Definition	Code Value
Blended rate (combination of reservation and volumetric charges)		3
Reservation charge only		1
Volumetric charge only		2

Rate Identification Code

Code Value Description	Code Value Definition	Code Value
Capacity		CAP
Capacity - Field	A monthly reservation charge assessed on the capacity reserved under a storage contract in a field zone.	100
Capacity - Market	A monthly reservation charge assessed on the capacity reserved under a storage contract in a market zone.	101
Commodity	A charge based on utilization of service.	COM
Deliverability - Field	A monthly reservation charge assessed on the maximum daily withdrawal quantity in a field zone.	102
Deliverability - Market	A monthly reservation charge assessed on the maximum daily withdrawal quantity in a market zone.	103
Reservation		RES
Reservation - Field Transportation	A rate to reserve firm transportation capacity between primary locations in a field zone.	104
Reservation - Gathering	A rate to reserve firm transportation capacity at a receipt location designated as gathering.	105

Code Value Description	Code Value Definition	Code Value
Reservation - Market Access	A rate to reserve firm transportation capacity between primary locations in a market zone.	106
Reservation - Market Transportation (100 mi)	A rate to reserve firm transportation capacity between primary locations in a market zone relative to the distance of haul.	107
Reservation - Transportation Field - Z1A	A rate to reserve firm transportation capacity between primary points in the Field Zone and Zone 1A.	115
Reservation - Transportation Field - Z1B	A rate to reserve firm transportation capacity between primary points in the Field Zone and Zone1B.	116
Reservation - Transportation Field - Z2	A rate to reserve firm transportation capacity between primary points in the Field Zone and Zone 2.	117
Reservation - Transportation Z1A - Z1A	A rate to reserve firm transportation capacity between primary points in Zone 1A.	118
Reservation - Transportation Z1A - Z1B	A rate to reserve firm transportation capacity between primary points in Zone 1A and Zone 1B.	119
Reservation - Transportation Z1A - Z2	A rate to reserve firm transportation capacity between primary points in Zone 1A and Zone 2.	120
Reservation - Transportation Z1B - Z1B	A rate to reserve firm transportation capacity between primary points in Zone 1B.	121
Reservation - Transportation Z1B - Z2	A rate to reserve firm transportation capacity between primary points in Zone 1B and Zone 2.	122
Reservation - Transportation Z2 - Z2	A rate to reserve firm transportation capacity between primary points in Zone 2.	123
Storage - Space Charge	A charge applicable to firm storage services only. Assessed against the adjusted maximum storage quantity.	109
Storage Reservation - Incremental Charge	A charge applicable to firm storage services only. Assessed against the incremental maximum daily withdrawal quantity.	110
Storage Volumetric - Field	A charge applicable to interruptible storage services only. Assessed against the average daily stored volume for the month in a field zone.	111
Storage Volumetric - Market	A charge applicable to interruptible storage services only. Assessed against the average daily stored volume for the month in a market zone.	112
Storage Volumetric - Space Charge	A charge applicable to firm storage services only. Assessed against the maximum storage quantity.	113
Volumetric		VOL

Rate Reporting Level

Code Value Description	Code Value Definition	Code Value
Contract	Rates are reported at the contract level	K
Point	Rates are reported at the point level	P
Segment	Rates are reported at the segment level	S

Reservation Rate Basis

Code Value Description	Code Value Definition	Code Value
Per day		DA
Per month		MO
Per year		YR
Seasonal		SN
Service unit (for storage)		SV

Segment Indicator

Code Value Description	Code Value Definition	Code Value
No	The Gas Transaction Point 1 specified does not uniquely identify a segment.	N
Yes	The Gas Transaction Point 1 specified uniquely identifies a segment.	Y

Surcharge Identification Code

Code Value Description	Code Value Definition	Code Value
Annual Charge Adjustment		ACA
Contract Adjustment		CTA
Demand		DEM
GRI Demand		GRI
GRI Demand - High Load		GRIH
GRI Demand - Low Load		GRIL
GSD Demand		GSD
Reservation - Canadian Resolution	Recovery of gas supply costs related to contract termination between parties.	500
Reservation - GSR	Recovery of gas supply realignment costs.	501
Reservation - Settlement	Resolution of take-or-pay costs related to a settlement.	502
Reservation Balancing		RSBL
Reservation Charge Adjustment		RCA
Reservation volumetric		RSVL
Storage Gasification Surcharge - Market	Recovery of costs related to third party storage.	503
Stranded Transportation Cost	Recovery of stranded third party transportation costs.	504
Stranded Transportation Cost - Miscellaneous	Recovery of miscellaneous stranded transportation costs.	505
Unrecovered PGA Cost	Recovery of Purchase Gas Adjustment cost pre-deferred account 191.	506

Surcharge Indicator

Code Value Description	Code Value Definition	Code Value
Rate(s) stated do not include any applicable surcharges; no surcharge detail provided; surcharge total provided	[no definition necessary]	7
Rate(s) stated do not include any applicable surcharges; surcharge detail provided; no surcharge total provided	[no definition necessary]	6
Rate(s) stated do not include any applicable surcharges; surcharge detail and surcharge total provided	[no definition necessary]	8
Rate(s) stated include all applicable surcharges; no surcharge detail or surcharge total provided	[no definition necessary]	1
Rate(s) stated include all applicable surcharges; no surcharge detail provided; surcharge total provided	[no definition necessary]	3
Rate(s) stated include all applicable surcharges; surcharge detail and surcharge total provided	[no definition necessary]	4
Rate(s) stated include all applicable surcharges; surcharge detail provided; no surcharge total provided	[no definition necessary]	2
Rate(s) stated include only rates; no surcharges applicable.	[no definition necessary]	5

TECHNICAL IMPLEMENTATION OF BUSINESS PROCESS

Transactional Reporting - Firm Transportation is a report from a **transportation service provider** detailing contract information for new or amended firm transportation service. The report identifies the **contract holder** as the entity with the contractual relationship with the transportation service provider. The agreement between the contract holder and the transportation service provider is known as the **service requester contract**.

Contract status indicates whether the reported service requester contract is new or amended. **Amendment reporting** specifies whether data reported for an amendment to a contract contains all applicable contract data or only changes to the previous contract data. For amended contracts reporting changes only via EDI/EDM or FF/EDM, in addition to the mandatory data elements, only those data elements that have changed from the previous contract data should be sent. It is, however, permissible for a transportation service provider to display on their Web site, at their discretion, additional data elements within this dataset, provided they are differentiated from the mandatory or changed data elements.

When reporting changes only and the information that is being reported is specific to a location(s), the corresponding location data should be sent.

Contract begin date and **contract end date** pertain to the dates on which the service requester contract is effective. Contract end date is reported without respect to rollover or evergreen provisions, which are contained in the Index of Customers should they exist. **Contract entitlement begin date** and **contract entitlement begin time** refer to the date and time when service can first be provided under a service requester contract. The default for contract entitlement begin date is the contract begin date. The default for contract entitlement begin time is the beginning of the gas day on the contract entitlement begin date. **Contract entitlement end date** and **contract entitlement end time** refer to the date and time when service can last be provided under a service requester contract without respect to rollover or evergreen provision(s). The default for contract entitlement end date is the contract end date. The default for contract entitlement end time is the end of the gas day on the contract entitlement end date.

The data set accommodates the reporting of multiple occurrences of entitlement date/time periods for a service requester contract. This can be accomplished by pairing the contract entitlement begin time and contract entitlement end time to describe discrete period(s) of entitlement during the gas day. Furthermore, the contract entitlement begin date and contract entitlement end date can be used together to describe discrete period(s) of entitlement within the contract duration.

The **rate reporting level** specifies the level at which the rate data is presented. Rate and surcharge information is reported using various data elements such as **rate charged**, **surcharge indicator**, **rate identification code**, and **reservation rate basis**. When the rate and surcharge information cannot be described/reported at reporting time using the data elements in the dataset, it should be communicated in **special terms and miscellaneous notes**.

There may be multiple values for the **posting date** and **posting time** in a given transmission.

SAMPLE PAPER TRANSACTION

Transportation Service Provider:	Enormous Pipeline (246810121)
Amendment Reporting:	All Data
Contract Holder:	My Gas Shipper (987654321)
Service Requester Contract:	K1234
Contract Begin Date:	April 1, 2002
Contract End Date:	April 6, 2006
Affiliate Indicator:	None
Rate Reporting Level:	Contract
Rate Form/Type:	Reservation Only
Reservation Rate Basis:	Per Day
Posting Date:	March 15, 2002
Posting Time:	9:00 a.m.
Contract Status:	New
Contract Entitlement Begin Date:	April 1, 2002
Contract Entitlement Begin Time:	9:00 a.m.
Contract Entitlement End Date:	April 1, 2006
Contract Entitlement End Time:	9:00 a.m.
Location/Quantity Type:	Receipt to Delivery
Surcharge Indicator:	Rate(s) stated include(s) only rates; no surcharges applicable
Reservation Rate Information	
Maximum Tariff Rate:	\$2.75
Rate ID:	Reservation
Rate Charged:	\$2.75
Negotiated Rate Indicator:	Yes
Commodity Rate Information	
Maximum Tariff Rate:	\$0.34
Rate ID:	Commodity
Rate Charged:	\$0.33
Negotiated Rate Indicator:	Yes

<u>Receipt Location</u>	<u>Contractual Quantity – Location</u>	<u>Delivery Location</u>	<u>Contractual Quantity – Location</u>
0000DRN01	1000	0000DRN02	1000
0000DRN03	1500	0000DRN04	1500
0000DRN05	2000	0000DRN06	2000

DATA DICTIONARY

Standard 5.4.x

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Affiliate Indicator Data	An indicator that specifies which parties to the transaction are affiliated.	BEDG			
Affiliate Indicator (Affil)		BEDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Affiliate Indicator or Affiliate Indicator Description is required.
Affiliate Indicator Description (Affil Desc)		BEDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Affiliate Indicator or Affiliate Indicator Description is required.
Amendment Reporting Data	Specifies whether data reported for an amendment to a contract contains all applicable contract data or only changes to the previous contract data.	TSPDG			

¹ The EDI/FF usages do not appear in the data dictionary. The column is retained and the usages will be provided when the EDI and FF implementation instructions are published.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage¹	Condition
Amendment Reporting (Amend Rptg)		TSPDG	C		For EBB, at least one of Amendment Reporting or Amendment Reporting Description is required.
Amendment Reporting Description (Amend Rptg Desc)		TSPDG	C		For EBB, at least one of Amendment Reporting or Amendment Reporting Description is required.
Contract Begin Date (K Beg Date)	The date on which the Service Requester Contract becomes effective.	CDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contract End Date (K End Date)	The last date on which the Service Requester Contract is effective without regard to evergreen or rollover provision(s).	CDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contract Entitlement Begin Date (K Ent Beg Date)	The gas day on which service can first be provided under the Service Requester Contract.	CEDG	M		Default is Contract Begin Date.
Contract Entitlement Begin Time (K Ent Beg Time)	The time at which service can first be provided under the Service Requester Contract on the Contract Entitlement Begin Date.	CEDG	M		Default is beginning of the gas day on the Contract Entitlement Begin Date.
Contract Entitlement End Date (K Ent End Date)	The gas day on which service can last be provided under the Service Requester Contract without regard to evergreen or rollover provision(s).	CEDG	M		Default is Contract End Date.
Contract Entitlement End Time (K Ent End Date)	The time at which service can last be provided under the Service Requester Contract on the Contract Entitlement End Date.	CEDG	M		Default is end of the gas day on the Contract Entitlement End Date.
Contract Holder Data	The entity with the contractual relationship with the transportation service provider.	BEDG			

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Contract Holder * (K Holder)		BEDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contract Holder Name *** (K Holder Name)		BEDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contract Status Data	Specifies whether data reported is for a new contract or for an amendment to a contract.	CSDG			
Contract Status (K Stat)		CSDG	C		For EBB, at least one of Contract Status or Contract Status Description is required.
Contract Status Description (K Stat Desc)		CSDG	C		For EBB, at least one of Contract Status or Contract Status Description is required
Contractual Quantity – Contract (K Qty - K)	Reflects either: <ul style="list-style-type: none"> the maximum daily contract quantity under the specified firm transportation service contract or the maximum storage quantity under the specified firm storage service contract. 	CDG	C		At least one of Contractual Quantity – Contract or Contractual Quantity – Location is mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contractual Quantity – Location (K Qty - Loc)	Reflects either: <ul style="list-style-type: none"> the maximum daily contract quantity for firm transportation service at the specified location or the maximum storage quantity for firm storage service at the specified location. 	LDG	C		At least one of Contractual Quantity – Contract or Contractual Quantity – Location is mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage¹	Condition
Gas Transaction Point 1 Data	The code which uniquely corresponds to Gas Transaction Point 1.	LDG			
Gas Transaction Point 1 Code * ** (GTP 1)		LDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 1 Proprietary Code (GTP 1 Prop)		LDG	C		Mandatory when Gas Transaction Point 1 Code is not present and one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. When this field uniquely identifies the segment, a proprietary segment identifier may be used.
Gas Transaction Point 1 Description (GTP 1 Desc)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point (not a standard).	LDG	C		For EBB, mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 1 Zone (GTP 1 Zn)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point zone (not a standard).	LDG	SO		
Gas Transaction Point 2 Data	The code which uniquely corresponds to Gas Transaction Point 2.	LDG			

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Gas Transaction Point 2 Code * ** (GTP 2)		LDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Segment Indicator indicates the segment is defined by two points, or • Location/Quantity Type Indicator is: <ul style="list-style-type: none"> ○ 'Receipt point(s) to delivery point(s) quantity', or ○ 'Mainline quantity', and one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 2 Proprietary Code (GTP 2 Prop)		LDG	C		Mandatory when Gas Transaction Point 2 Code is not present and one of the following conditions is met: <ul style="list-style-type: none"> • Segment Indicator indicates the segment is defined by two points, or • Location/Quantity Type Indicator is: <ul style="list-style-type: none"> ○ 'Receipt point(s) to delivery point(s) quantity', or ○ 'Mainline quantity', and one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Gas Transaction Point 2 Description (GTP 2 Desc)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point (not a standard).	LDG	C		For EBB, mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • the segment is defined by two points, or • Location/Quantity Type Indicator is: <ul style="list-style-type: none"> ○ 'Receipt point(s) to delivery point(s) quantity', or ○ 'Mainline quantity', and one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 2 Zone (GTP 2 Zn)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point zone (not a standard).	LDG	SO		
Location/Quantity Type Indicator Data	Indicates the location type for the referenced capacity/quantity.	RCDG			
Location/Quantity Type Indicator (Loc/QTI)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Location/Quantity Type Indicator or Location/Quantity Type Indicator Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Location/Quantity Type Indicator Description (Loc/QTI Desc)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Location/Quantity Type Indicator or Location/Quantity Type Indicator Description is required.
Maximum Tariff Rate (Max Trf Rate)	The maximum tariff rate for the Rate Identification Code specified.	RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Maximum Tariff Rate or Maximum Tariff Rate Reference is required. For EBB, when one of these conditions is met, at least one of Maximum Tariff Rate, Maximum Tariff Rate Reference or Maximum Tariff Rate Reference Description is required.
Maximum Tariff Rate Reference Data	A reference to maximum tariff rate data.	RCDG			
Maximum Tariff Rate Reference (Max Trf Rate Ref)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Maximum Tariff Rate or Maximum Tariff Rate Reference is required. For EBB, when one of these conditions is met, at least one of Maximum Tariff Rate, Maximum Tariff Rate Reference or Maximum Tariff Rate Reference Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage¹	Condition
Maximum Tariff Rate Reference Description (Max Trf Rate Ref Desc)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Maximum Tariff Rate, Maximum Tariff Rate Reference or Maximum Tariff Rate Reference Description is required.
Negotiated Rate Indicator Data	Indicates whether the contract is a negotiated rate contract.	RCDG			
Negotiated Rate Indicator (Ngtd Rate Ind)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Negotiated Rate Indicator or Negotiated Rate Indicator Description is required.
Negotiated Rate Indicator Description (Ngtd Rate Ind Desc)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Negotiated Rate Indicator or Negotiated Rate Indicator Description is required.
Posting Date (Post Date)	The date on which the service provider posts this information.	DDG	M		
Posting Time (Post Time)	The time on which the service provider posts this information.	DDG	M		

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Rate Charged (Rate Chgd)	The rate charged for the Rate Identification Code or Surcharge Identification Code specified.	RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Rate Charged or Rate Charged Reference is required. For EBB, when one of these conditions is met, at least one of Rate Charged, Rate Charged Reference or Rate Charged Reference Description is required.
Rate Charged Reference Data	A reference to rate charged data.	RCDG			
Rate Charged Reference (Rate Chgd Ref)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Rate Charged or Rate Charged Reference is required. For EBB, when one of these conditions is met, at least one of Rate Charged, Rate Charged Reference or Rate Charged Reference Description is required.
Rate Charged Reference Description (Rate Chgd Ref Desc)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Rate Charged, Rate Charged Reference or Rate Charged Reference Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage¹	Condition
Rate Form/Type Code Data	A code indicating the form or type of rate.	RDG			
Rate Form/Type Code (Rate Form/Type)		RDG	C		<p>Mandatory when one of the following conditions is met:</p> <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. <p>For EBB, when one of these conditions is met, at least one of Rate Form/Type Code or Rate Form/Type Code Description is required.</p>
Rate Form/Type Code Description (Rate Form/Type Desc)		RDG	C		<p>Mandatory when one of the following conditions is met:</p> <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. <p>For EBB, when one of these conditions is met, at least one of Rate Form/Type Code or Rate Form/Type Code Description is required.</p>
Rate Identification Code Data	A code which identifies a specific rate.	RCDG			
Rate Identification Code (Rate ID)		RCDG	C		<p>Mandatory when Rate Charged, Rate Charged Reference or Rate Charged Reference Description is present.</p> <p>For EBB, when this condition is met, at least one of Rate Identification Code or Rate Identification Code Description is required.</p>
Rate Identification Code Description (Rate ID Desc)		RCDG	C		<p>Mandatory when Rate Charged, Rate Charged Reference or Rate Charged Reference Description is present.</p> <p>For EBB, when this condition is met, at least one of Rate Identification Code or Rate Identification Code Description is required.</p>
Rate Reporting Level Data	Indicates the level at which rates are reported.	RDG			

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Rate Reporting Level (Rpt Lvl)		RDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Rate Reporting Level or Rate Reporting Level Description is required.
Rate Reporting Level Description (Rpt Lvl Desc)		RDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Rate Reporting Level or Rate Reporting Level Description is required.
Rate Schedule (Rate Sch)	A representation of the rate schedule that is the same as the transportation service provider's tariff abbreviation (if any) for the rate schedule under which service is being provided.	RDG	SO		
Reservation Rate Basis Data	A code field indicating the basis on which the reservation rate is expressed.	RDG			
Reservation Rate Basis (Res Rate Basis)		RDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Reservation Rate Basis or Reservation Rate Basis Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Reservation Rate Basis Description (Res Rate Basis Desc)		RDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Reservation Rate Basis or Reservation Rate Basis Description is required.
Seasonal End Date (Seasnl End)	End date of the effective period of the sub-term or seasonal period within the contract term.	RDG	C		Mandatory when Seasonal Start Date is provided and one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Seasonal Start Date (Seasnl St)	Start date of the effective period of the sub-term or seasonal period within the contract term.	RDG	SO		
Segment Indicator (Segment)	A code which indicates whether Gas Transaction Point 1 uniquely identifies the segment.	LDG	nu		Mandatory when Location/Quantity Type Indicator is 'Segment(s) quantity' and one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Service Requester Contract (Svc Req K)	This is the contract under which service is being requested.	CDG	M		
Special Terms & Miscellaneous Notes (Terms/Notes)	Other terms which are either offered or required.	RDG	SO		
Surcharge Identification Code Data	A code which identifies a specific surcharge.	RCDG			

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Surcharge Identification Code (Surchg ID)		RCDG	C		Mandatory when Surcharge Indicator specifies that surcharge detail is provided and one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when these conditions are met, at least one of Surcharge Identification Code or Surcharge Identification Code Description is required.
Surcharge Identification Code Description (Surchg ID Desc)		RCDG	C		Mandatory when Surcharge Indicator specifies that surcharge detail is provided and one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when these conditions are met, at least one of Surcharge Identification Code or Surcharge Identification Code Description is required.
Surcharge Indicator Data	Indicates whether surcharges are applicable, and if so, where surcharge information is located.	RCDG			
Surcharge Indicator (Surchg Ind)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Surcharge Indicator or Surcharge Indicator Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Surcharge Indicator Description (Surchg Ind Desc)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Surcharge Indicator or Surcharge Indicator Description is required.
Total Surcharges (Tot Surchg)	Contains the total of all applicable surcharge(s).	RCDG	C		Mandatory when Surcharge Indicator specifies that a total of all applicable surcharge(s) is provided and one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Transportation Service Provider Data	A code which uniquely identifies the transportation service provider.	TSPDG			
Transportation Service Provider * (TSP)		TSPDG	M		
Transportation Service Provider Name (TSP Name)		TSPDG	M		

* Indicates Common Code

** When a Transportation Service Provider's proprietary location code is employed pursuant to this standard, the parties agree that nominations, confirmations, scheduled quantities, and capacity release documents employing such code should be for one gas day at a time, and used only until there is a verified common code for the point associated with the proprietary location code. This would include daily nominations over a weekend. Within two months following the availability of the location the parties should employ the common code and no longer employ the proprietary code for identifying such location in the data sets related to the identified standards.

*** The Transportation Service Provider's version of the name.

DATA GROUPS:

BEDG Business Entity Data Group
 CDG Contract Data Group
 CEDG Contract Entitlement Data Group

CSDG	Contract Status Data Group
DDG	Date Data Group
LDG	Location Data Group
RCDG	Rate Charged Data Group
RDG	Rate Data Group
TSPDG	Transportation Service Provider Data Group

CODE VALUES DICTIONARY

Affiliate Indicator

Code Value Description	Code Value Definition	Code Value
None	For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.	NONE
TSP	For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider.	TSP

Amendment Reporting

Code Value Description	Code Value Definition	Code Value
All Data	[no definition necessary]	A
Changes Only	[no definition necessary]	C

Contract Status

Code Value Description	Code Value Definition	Code Value
Amended	[no definition necessary]	A
New	[no definition necessary]	N

Location/Quantity Type Indicator

Code Value Description	Code Value Definition	Code Value
Delivery point(s) quantity		2
Mainline quantity		5
Receipt point(s) quantity		1
Receipt point(s) to delivery point(s) quantity		3
Segment(s) quantity		4
Storage injection quantity		7
Storage quantity		6
Storage withdrawal quantity		8

Maximum Tariff Rate Reference

Code Value Description	Code Value Definition	Code Value
Matrix	[no definition necessary]	M
Tariff	[no definition necessary]	T

Negotiated Rate Indicator

Code Value Description	Code Value Definition	Code Value
No	[no definition necessary]	N
Yes	[no definition necessary]	Y

Rate Charged Reference

Code Value Description	Code Value Definition	Code Value
Max	Maximum rate pursuant to tariff provisions.	MAX
Min	Minimum rate pursuant to tariff provisions.	MIN
Special Terms	Rate described in Special Terms and Miscellaneous Notes.	SPT
Tariff	Rate pursuant to tariff provisions.	TAR

Rate Form/Type Code

Code Value Description	Code Value Definition	Code Value
Blended rate (combination of reservation and volumetric charges)		3
Reservation charge only		1
Volumetric charge only		2

Rate Identification Code

Code Value Description	Code Value Definition	Code Value
Capacity		CAP
Capacity - Field	A monthly reservation charge assessed on the capacity reserved under a storage contract in a field zone.	100
Capacity - Market	A monthly reservation charge assessed on the capacity reserved under a storage contract in a market zone.	101
Commodity	A charge based on utilization of service.	COM
Deliverability - Field	A monthly reservation charge assessed on the maximum daily withdrawal quantity in a field zone.	102
Deliverability - Market	A monthly reservation charge assessed on the maximum daily withdrawal quantity in a market zone.	103

Code Value Description	Code Value Definition	Code Value
Reservation		RES
Reservation - Field Transportation	A rate to reserve firm transportation capacity between primary locations in a field zone.	104
Reservation - Gathering	A rate to reserve firm transportation capacity at a receipt location designated as gathering.	105
Reservation - Market Access	A rate to reserve firm transportation capacity between primary locations in a market zone.	106
Reservation - Market Transportation (100 mi)	A rate to reserve firm transportation capacity between primary locations in a market zone relative to the distance of haul.	107
Reservation - Transportation Field - Z1A	A rate to reserve firm transportation capacity between primary points in the Field Zone and Zone 1A.	115
Reservation - Transportation Field - Z1B	A rate to reserve firm transportation capacity between primary points in the Field Zone and Zone1B.	116
Reservation - Transportation Field - Z2	A rate to reserve firm transportation capacity between primary points in the Field Zone and Zone 2.	117
Reservation - Transportation Z1A - Z1A	A rate to reserve firm transportation capacity between primary points in Zone 1A.	118
Reservation - Transportation Z1A - Z1B	A rate to reserve firm transportation capacity between primary points in Zone 1A and Zone 1B.	119
Reservation - Transportation Z1A - Z2	A rate to reserve firm transportation capacity between primary points in Zone 1A and Zone 2.	120
Reservation - Transportation Z1B - Z1B	A rate to reserve firm transportation capacity between primary points in Zone 1B.	121
Reservation - Transportation Z1B - Z2	A rate to reserve firm transportation capacity between primary points in Zone 1B and Zone 2.	122
Reservation - Transportation Z2 - Z2	A rate to reserve firm transportation capacity between primary points in Zone 2.	123
Storage - Space Charge	A charge applicable to firm storage services only. Assessed against the adjusted maximum storage quantity.	109
Storage Reservation - Incremental Charge	A charge applicable to firm storage services only. Assessed against the incremental maximum daily withdrawal quantity.	110
Storage Volumetric - Field	A charge applicable to interruptible storage services only. Assessed against the average daily stored volume for the month in a field zone.	111
Storage Volumetric - Market	A charge applicable to interruptible storage services only. Assessed against the average daily stored volume for the month in a market zone.	112
Storage Volumetric - Space Charge	A charge applicable to firm storage services only. Assessed against the maximum storage quantity.	113
Volumetric		VOL

Rate Reporting Level

Code Value Description	Code Value Definition	Code Value
Contract	Rates are reported at the contract level	K

Code Value Description	Code Value Definition	Code Value
Point	Rates are reported at the point level	P
Segment	Rates are reported at the segment level	S

Reservation Rate Basis

Code Value Description	Code Value Definition	Code Value
Per day		DA
Per month		MO
Per year		YR
Seasonal		SN
Service unit (for storage)		SV

Segment Indicator

Code Value Description	Code Value Definition	Code Value
No	The Gas Transaction Point 1 specified does not uniquely identify a segment.	N
Yes	The Gas Transaction Point 1 specified uniquely identifies a segment.	Y

Surcharge Identification Code

Code Value Description	Code Value Definition	Code Value
Annual Charge Adjustment		ACA
Contract Adjustment		CTA
Demand		DEM
GRI Demand		GRI
GRI Demand - High Load		GRIH
GRI Demand - Low Load		GRIL
GSD Demand		GSD
Reservation - Canadian Resolution	Recovery of gas supply costs related to contract termination between parties.	500
Reservation - GSR	Recovery of gas supply realignment costs.	501
Reservation - Settlement	Resolution of take-or-pay costs related to a settlement.	502
Reservation Balancing		RSBL
Reservation Charge Adjustment		RCA
Reservation volumetric		RSVL
Storage Gasification Surcharge - Market	Recovery of costs related to third party storage.	503

Code Value Description	Code Value Definition	Code Value
Stranded Transportation Cost	Recovery of stranded third party transportation costs.	504
Stranded Transportation Cost - Miscellaneous	Recovery of miscellaneous stranded transportation costs.	505
Unrecovered PGA Cost	Recovery of Purchase Gas Adjustment cost pre-deferred account 191.	506

Surcharge Indicator

Code Value Description	Code Value Definition	Code Value
Rate(s) stated do not include any applicable surcharges; no surcharge detail provided; surcharge total provided	[no definition necessary]	7
Rate(s) stated do not include any applicable surcharges; surcharge detail provided; no surcharge total provided	[no definition necessary]	6
Rate(s) stated do not include any applicable surcharges; surcharge detail and surcharge total provided	[no definition necessary]	8
Rate(s) stated include all applicable surcharges; no surcharge detail or surcharge total provided	[no definition necessary]	1
Rate(s) stated include all applicable surcharges; no surcharge detail provided; surcharge total provided	[no definition necessary]	3
Rate(s) stated include all applicable surcharges; surcharge detail and surcharge total provided	[no definition necessary]	4
Rate(s) stated include all applicable surcharges; surcharge detail provided; no surcharge total provided	[no definition necessary]	2
Rate(s) stated include only rates; no surcharges applicable.	[no definition necessary]	5

TECHNICAL IMPLEMENTATION OF BUSINESS PROCESS

Transactional Reporting - Interruptible Transportation is a report from a **transportation service provider** detailing information for new or amended interruptible transportation service. The report identifies the **contract holder** as the entity with the contractual relationship with the transportation service provider. The agreement between the contract holder and the transportation service provider is known as the **service requester contract**.

Contract status indicates whether the reported service requester contract is new or amended. **Amendment reporting** specifies whether data reported for an amendment to a contract contains all applicable contract data or only changes to the previous contract data. For amended contracts reporting changes only via EDI/EDM or FF/EDM, in addition to the mandatory data elements, only those data elements that have changed from the previous contract data should be sent. It is, however, permissible for a transportation service provider to display on their Web site, at their discretion, additional data elements within this dataset, provided they are differentiated from the mandatory or changed data elements.

When reporting changes only and the information that is being reported is specific to a location(s), the corresponding location data should be sent.

The **rate reporting level** specifies the level at which the rate data is presented. Rate and surcharge information is reported using various data elements such as **rate charged**, **surcharge indicator**, and **rate identification code**. When the rate and surcharge information cannot be described/reported at reporting time using the data elements in the dataset, it should be communicated in **special terms and miscellaneous notes**.

There should be only one **posting date** and **posting time** in a given transmission.

SAMPLE PAPER TRANSACTION

Transportation Service Provider: Enormous Pipeline (246810121)
Posting Date: May 15, 2003
Posting Time: 9:00 a.m.

Contract Holder: My Gas Shipper (987654321)
Affiliate Indicator: None
Rate Reporting Level: Contract

Contract Status: New
Location/Quantity Type: Receipt to Delivery
Maximum Tariff Rate: \$0.25
Rate ID: Commodity
Surcharge Indicator: Rate(s) stated include(s) only rates; no surcharges applicable
Rate Charged: \$0.20

**Receipt
Location**

0000DRN01
0000DRN01
0000DRN03
0000DRN05

**Delivery
Location**

0000DRN02
0000DRN04
0000DRN04
0000DRN06

DATA DICTIONARY

Standard 5.4.x

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Affiliate Indicator Data	An indicator that specifies which parties to the transaction are affiliated.	BEDG			
Affiliate Indicator (Affil Ind)		BEDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Affiliate Indicator or Affiliate Indicator Description is required.
Affiliate Indicator Description (Affil Ind Desc)		BEDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Affiliate Indicator or Affiliate Indicator Description is required.
Amendment Reporting Data	Specifies whether data reported for an amendment to a contract contains all applicable contract data or only changes to the previous contract data.	TSPDG			

¹ The EDI/FF usages do not appear in the data dictionary. The column is retained and the usages will be provided when the EDI and FF implementation instructions are published.

GISB Transactional Reporting - Interruptible Transportation

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Amendment Reporting (Amend Rptg)		TSPDG	C		For EBB, at least one of Amendment Reporting or Amendment Reporting Description is required.
Amendment Reporting Description (Amend Rptg Desc)		TSPDG	C		For EBB, at least one of Amendment Reporting or Amendment Reporting Description is required.
Contract Holder Data	The entity with the contractual relationship with the transportation service provider.	BEDG			
Contract Holder * (K Holder)		BEDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contract Holder Name *** (K Holder Name)		BEDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contract Status Data	Specifies whether data reported is for a new contract or for an amendment to a contract.	CSDG			
Contract Status (K Stat)		CSDG	C		For EBB, at least one of Contract Status or Contract Status Description is required.
Contract Status Description (K Stat Desc)		CSDG	C		For EBB, at least one of Contract Status or Contract Status Description is required.
Gas Transaction Point 1 Data	The code which uniquely corresponds to Gas Transaction Point 1.	LDG			

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Gas Transaction Point 1 Code * ** (GTP 1)		LDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 1 Proprietary Code (GTP 1 Prop)		LDG	C		Mandatory when Gas Transaction Point 1 Code is not present and one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. When this field uniquely identifies the segment, a proprietary segment identifier may be used.
Gas Transaction Point 1 Description (GTP 1 Desc)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point (not a standard).	LDG	C		For EBB, mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 1 Zone (GTP 1 Zn)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point zone (not a standard).	LDG	SO		
Gas Transaction Point 2 Data	The code which uniquely corresponds to Gas Transaction Point 2.	LDG			

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Gas Transaction Point 2 Code * ** (GTP 2)		LDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Segment Indicator indicates the segment is defined by two points, or • Location/Quantity Type Indicator is: <ul style="list-style-type: none"> ○ 'Receipt point(s) to delivery point(s) quantity', or ○ 'Mainline quantity', and one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 2 Proprietary Code (GTP 2 Prop)		LDG	C		Mandatory when Gas Transaction Point 2 Code is not present and one of the following conditions is met: <ul style="list-style-type: none"> • Segment Indicator indicates the segment is defined by two points, or • Location/Quantity Type Indicator is: <ul style="list-style-type: none"> ○ 'Receipt point(s) to delivery point(s) quantity', or ○ 'Mainline quantity', and one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 2 Description (GTP 2 Desc)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point (not a standard).	LDG	C		For EBB, mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • the segment is defined by two points, or • Location/Quantity Type Indicator is: <ul style="list-style-type: none"> ○ 'Receipt point(s) to delivery point(s) quantity', or ○ 'Mainline quantity'.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage¹	Condition
Gas Transaction Point 2 Zone (GTP 2 Zn)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point zone (not a standard).	LDG	SO		
Interruptible Quantity – Contract (IT Qty - K)	The quantity the service requester is entitled to nominate under the specified contract.	CDG	SO		
Interruptible Quantity – Location (IT Qty - Loc)	The quantity the service requester is entitled to nominate at the specified location.	LDG	SO		
Location/Quantity Type Indicator Data	Indicates the location type for the referenced capacity/quantity.	RCDG			
Location/Quantity Type Indicator (Loc/QTI)		RCDG	C		<p>Mandatory when one of the following conditions is met:</p> <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. <p>For EBB, when one of these conditions is met, at least one of Location/Quantity Type Indicator or Location/Quantity Type Indicator Description is required.</p>
Location/Quantity Type Indicator Description (Loc/QTI Desc)		RCDG	C		<p>Mandatory when one of the following conditions is met:</p> <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. <p>For EBB, when one of these conditions is met, at least one of Location/Quantity Type Indicator or Location/Quantity Type Indicator Description is required.</p>

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Maximum Tariff Rate (Max Trf Rate)	The maximum tariff rate for the Rate Identification Code specified.	RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Maximum Tariff Rate or Maximum Tariff Rate Reference is required. For EBB, when one of these conditions is met, at least one of Maximum Tariff Rate, Maximum Tariff Rate Reference or Maximum Tariff Rate Reference Description is required.
Maximum Tariff Rate Reference Data	A reference to maximum tariff rate data.	RCDG			
Maximum Tariff Rate Reference (Max Trf Rate Ref)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Maximum Tariff Rate or Maximum Tariff Rate Reference is required. For EBB, when one of these conditions is met, at least one of Maximum Tariff Rate, Maximum Tariff Rate Reference or Maximum Tariff Rate Reference Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Maximum Tariff Rate Reference Description (Max Trf Rate Ref Desc)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Maximum Tariff Rate or Maximum Tariff Rate Reference is required. For EBB, when one of these conditions is met, at least one of Maximum Tariff Rate, Maximum Tariff Rate Reference or Maximum Tariff Rate Reference Description is required.
Posting Date (Post Date)	The date on which the service provider posts this information.	DDG	M		
Posting Time (Post Time)	The time on which the service provider posts this information.	DDG	M		
Rate Charged (Rate Chgd)	The rate charged for the Rate Identification Code or Surcharge Identification Code specified.	RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Rate Charged or Rate Charged Reference is required. For EBB, when one of these conditions is met, at least one of Rate Charged, Rate Charged Reference or Rate Charged Reference Description is required.
Rate Charged Reference Data	A reference to rate charged data.	RCDG			

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Rate Charged Reference (Rate Chgd Ref)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Rate Charged or Rate Charged Reference is required. For EBB, when one of these conditions is met, at least one of Rate Charged, Rate Charged Reference or Rate Charged Reference Description is required.
Rate Charged Reference Description (Rate Chgd Ref Desc)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Rate Charged, Rate Charged Reference or Rate Charged Reference Description is required.
Rate Identification Code Data	A code which identifies a specific rate.	RCDG			
Rate Identification Code (Rate ID)		RCDG	C		Mandatory when Rate Charged, Rate Charged Reference or Rate Charged Reference Description is present. For EBB, when this condition is met, at least one of Rate Identification Code or Rate Identification Code Description is required.
Rate Identification Code Description (Rate ID Desc)		RCDG	C		Mandatory when Rate Charged, Rate Charged Reference or Rate Charged Reference Description is present. For EBB, when this condition is met, at least one of Rate Identification Code or Rate Identification Code Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage¹	Condition
Rate Reporting Level Data	Indicates the level at which rates are reported.	RDG			
Rate Reporting Level (Rpt Lvl)		RDG	C		<p>Mandatory when one of the following conditions is met:</p> <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. <p>For EBB, when one of these conditions is met, at least one of Rate Reporting Level or Rate Reporting Level Description is required.</p>
Rate Reporting Level Description (Rpt Lvl Desc)		RDG	C		<p>Mandatory when one of the following conditions is met:</p> <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. <p>For EBB, when one of these conditions is met, at least one of Rate Reporting Level or Rate Reporting Level Description is required.</p>
Rate Schedule (Rate Sch)	A representation of the rate schedule that is the same as the transportation service provider's tariff abbreviation (if any) for the rate schedule under which service is being provided.	RDG	SO		
Segment Indicator (Segment)	A code which indicates whether Gas Transaction Point 1 uniquely identifies the segment.	LDG	nu		<p>Mandatory when Location/Quantity Type Indicator is 'Segment(s) quantity' and one of the following conditions is met:</p> <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Service Requester Contract (Svc Req K)	This is the contract under which service is being requested.	CDG	SO		

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage¹	Condition
Special Terms & Miscellaneous Notes (Terms/Notes)	Other terms which are either offered or required.	RDG	SO		
Surcharge Identification Code Data	A code which identifies a specific surcharge.	RCDG			
Surcharge Identification Code (Surchg ID)		RCDG	C		<p>Mandatory when Surcharge Indicator specifies that surcharge detail is provided and one of the following conditions is met:</p> <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. <p>For EBB, when these conditions are met, at least one of Surcharge Identification Code or Surcharge Identification Code Description is required.</p>
Surcharge Identification Code Description (Surchg ID Desc)		RCDG	C		<p>Mandatory when Surcharge Indicator specifies that surcharge detail is provided and one of the following conditions is met:</p> <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. <p>For EBB, when these conditions are met, at least one of Surcharge Identification Code or Surcharge Identification Code Description is required.</p>
Surcharge Indicator Data	Indicates whether surcharges are applicable, and if so, where surcharge information is located.	RCDG			
Surcharge Indicator (Surchg Ind)		RCDG	C		<p>Mandatory when one of the following conditions is met:</p> <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. <p>For EBB, when one of these conditions is met, at least one of Surcharge Indicator or Surcharge Indicator Description is required.</p>

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage ¹	Condition
Surcharge Indicator Description (Surchg Ind Desc)		RCDG	C		Mandatory when one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Surcharge Indicator or Surcharge Indicator Description is required.
Total Surcharges (Tot Surchg)	Contains the total of all applicable surcharge(s).	RCDG	C		Mandatory when Surcharge Indicator specifies that a total of all applicable surcharge(s) is provided and one of the following conditions is met: <ul style="list-style-type: none"> Contract Status is 'New', or Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Transportation Service Provider Data	A code which uniquely identifies the transportation service provider.	TSPDG			
Transportation Service Provider * (TSP)		TSPDG	M		
Transportation Service Provider Name (TSP Name)		TSPDG	M		

* Indicates Common Code

** When a Transportation Service Provider's proprietary location code is employed pursuant to this standard, the parties agree that nominations, confirmations, scheduled quantities, and capacity release documents employing such code should be for one gas day at a time, and used only until there is a verified common code for the point associated with the proprietary location code. This would include daily nominations over a weekend. Within two months following the availability of the location the parties should employ the common code and no longer employ the proprietary code for identifying such location in the data sets related to the identified standards.

*** The Transportation Service Provider's version of the name.

DATA GROUPS:

BEDG Business Entity Data Group
 CDG Contracts Data Group
 DDG Date Data Group

LDG	Location Data Group
LSDG	Line Status Data Group
RCDG	Rate Charged Data Group
RDG	Rate Data Group
TSPDG	Transportation Service Provider Data Group

CODE VALUES DICTIONARY

Affiliate Indicator

Code Value Description	Code Value Definition	Code Value
None	For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.	NONE
TSP	For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider.	TSP

Amendment Reporting

Code Value Description	Code Value Definition	Code Value
All Data	[no definition necessary]	A
Changes Only	[no definition necessary]	C

Contract Status

Code Value Description	Code Value Definition	Code Value
Amended	[no definition necessary]	A
New	[no definition necessary]	N

Location/Quantity Type Indicator

Code Value Description	Code Value Definition	Code Value
Delivery point(s) quantity		2
Mainline quantity		5
Receipt point(s) quantity		1
Receipt point(s) to delivery point(s) quantity		3
Segment(s) quantity		4
Storage injection quantity		7
Storage quantity		6
Storage withdrawal quantity		8

Maximum Tariff Rate Reference

Code Value Description	Code Value Definition	Code Value
Matrix	[no definition necessary]	M
Tariff	[no definition necessary]	T

Rate Charged Reference

Code Value Description	Code Value Definition	Code Value
Matrix	[no definition necessary]	MAT
Max	Maximum rate pursuant to tariff provisions.	MAX
Min	Minimum rate pursuant to tariff provisions.	MIN
Special Terms	Rate described in Special Terms and Miscellaneous Notes.	SPT
Tariff	Rate pursuant to tariff provisions.	TAR

Rate Identification Code

Code Value Description	Code Value Definition	Code Value
Commodity	A charge based on utilization of service.	COM
Storage Inventory	A charge applicable to interruptible storage services only. Assessed against the absolute value of the inventory balances in the account.	124
Storage Volumetric - Field	A charge applicable to interruptible storage services only. Assessed against the average daily stored volume for the month in a field zone.	111
Storage Volumetric - Market	A charge applicable to interruptible storage services only. Assessed against the average daily stored volume for the month in a market zone.	112

Rate Reporting Level

Code Value Description	Code Value Definition	Code Value
Contract	Rates are reported at the contract level	K
Point	Rates are reported at the point level	P
Segment	Rates are reported at the segment level	S

Segment Indicator

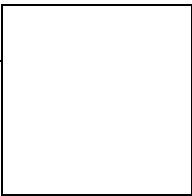
Code Value Description	Code Value Definition	Code Value
No	The Gas Transaction Point 1 specified does not uniquely identify a segment.	N
Yes	The Gas Transaction Point 1 specified uniquely identifies a segment.	Y

Surcharge Identification Code

Code Value Description	Code Value Definition	Code Value
Annual Charge Adjustment		ACA
Contract Adjustment		CTA
Storage Gasification Surcharge - Market	Recovery of costs related to third party storage.	503
Stranded Transportation Cost	Recovery of stranded third party transportation costs.	504
Stranded Transportation Cost - Miscellaneous	Recovery of miscellaneous stranded transportation costs.	505
Unrecovered PGA Cost	Recovery of Purchase Gas Adjustment cost pre-deferred account 191.	506

Surcharge Indicator

Code Value Description	Code Value Definition	Code Value
Rate(s) stated do not include any applicable surcharges; no surcharge detail provided; surcharge total provided	[no definition necessary]	7
Rate(s) stated do not include any applicable surcharges; surcharge detail provided; no surcharge total provided	[no definition necessary]	6
Rate(s) stated do not include any applicable surcharges; surcharge detail and surcharge total provided	[no definition necessary]	8
Rate(s) stated include all applicable surcharges; no surcharge detail or surcharge total provided	[no definition necessary]	1
Rate(s) stated include all applicable surcharges; no surcharge detail provided; surcharge total provided	[no definition necessary]	3
Rate(s) stated include all applicable surcharges; surcharge detail and surcharge total provided	[no definition necessary]	4
Rate(s) stated include all applicable surcharges; surcharge detail provided; no surcharge total provided	[no definition necessary]	2
Rate(s) stated include only rates; no surcharges applicable.	[no definition necessary]	5



RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

Requester: NAESB EDM Subcommittee

Request No.: XXXX

1. Recommended Action:

- Accept as requested
- Accept as modified below
- Decline

Effect of EC Vote to Accept Recommended Action:

- Change to Existing Practice
- Status Quo

2. TYPE OF MAINTENANCE

Per Request:

- Initiation
- Modification
- Interpretation
- Withdrawal

Per Recommendation:

- Initiation
- Modification
- Interpretation
- Withdrawal

- Principle (x.1.z)
- Definition (x.2.z)
- Business Practice Standard (x.3.z)
- Document (x.4.z)
- Data Element (x.4.z)
- Code Value (x.4.z)
- X12 Implementation Guide
- Business Process Documentation

- Principle (x.1.z)
- Definition (x.2.z)
- Business Practice Standard (x.3.z)
- Document (x.4.z)
- Data Element (x.4.z)
- Code Value (x.4.z)
- X12 Implementation Guide
- Business Process Documentation

3. RECOMMENDATION

SUMMARY: Make various changes to the NAESB EDM Manual to update the "Minimum Technical Characteristics" for NAESB Web Sites.

STANDARDS LANGUAGE:

Please see attached document for redline changes to the EDM Manual.

4. SUPPORTING DOCUMENTATION

a. Description of Request:



RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

Requester: NAESB EDM Subcommittee

Request No.: XXXX

b. Description of Recommendation:

The NAESB Future Technology Task Force (FTTF) (and in its place, the NAESB Electronic Delivery Mechanism (EDM) Subcommittee) is charged in Std 4.3.59 with an annual review of the specifications contained in the Appendices of the NAESB EDM Manual pertaining NAESB Informational Postings and Customer Activities Web Sites. The specifications cover various aspects of the configuration of both "user" systems and web site servers. This recommendation is the result of a review done by the FTTF in April 2001 and a subsequent review by the EDM Subcommittee in March 2002.

c. Business Purpose:

To provide approximate parity between NAESB's technical standards and developments in web site technology.

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

See the minutes of the EDM Subcommittee dated 3/11/02 and 3/13/02 and the work papers and minutes for the 4/24/01 FTTF meeting.

[EDM MANUAL TAB 10 - APPENDICIES]

APPENDIX A - Reference Guide

CGI

An excellent source on CGI is a book entitled "Special Edition Using CGI" by Jeffrey Dwight and Michael Erwin.

Firewall Security

An excellent source which covers this topic in detail is a book entitled "Firewalls and Internet Security: Repelling the Wily Hacker" by William Cheswick and Steven Bellovin.

GISB

GISB Web Site: (<http://www.gisb.org>) Primary reference for natural gas industry standards

General GISB FTTF Reference Page: (<http://www.gisb.org/fttf.htm>). This location provides pointers to samples and further documentation.

HTTP

The GISB EDM architecture is based on HTTP 1.1¹⁰, and all implementations should be compatible with this version.

W3C WorldWide Web Consortium. All aspects of HTTP, HTML, and other Web-related topics are documented at:

<http://www.w3.org/pub/WWW/>

General information regarding HTTP with basic terminology included are documented at:

<http://www.w3.org/pub/WWW/Protocols/HTTP/1.1/spec.html/4.0/spec.html>

Syntax information for multipart can be found in IETF RFC1341 section 7.2. (www.ietf.org)

HTML

Before April 24, 1998, the recommended standard from the WorldWide Web Consortium was HTML 3.2. The specification for this standard can be found at:

<http://www.w3.org/pub/WWW/TR/REC-html32.html>

Effective April 24, 1998, the WorldWide Web Consortium has made a recommendation for HTML 4.0. Information on HTML 4.0 may be found at <http://www.w3.org/TR/REC-html40/>.

<http://www.ncsa.uiuc.edu/General/Internet/WWW/HTMLPrimer.html>

<http://www.interlink-2000.com/guide-to-publishing-html.html>

Special Edition Using HTML, Second Edition, Mark Brown, John Jung, and Tom Savola, Que

Corporation, 1996.

PGP Software

PGP is available for a variety of operating systems and platforms. For more information contact Network Associates (<http://www.nai.com>)

Time Synchronization

Testing has shown that the clocks on all computer systems drift. It has also been surprising to see just how much they do. Time synchronization is required to assure that all trading partners transaction times are accurate. Time accuracy is dependent on how much a system's clock drifts, how frequently it is resynchronized and the accuracy of the source used for synchronization.

Authoritative time synchronization is now being provided by governmental agencies around the world based on a synchronized network of atomic clocks. In the United States this includes the U. S. Naval Observatory and the National Institute of Standards and Technology.

A easy way to obtain the current time is from the U. S. Naval Observatory's Web site at <http://tycho.usno.navy.mil/cgi-bin/timer.pl>. The output from this page can easily be edited and reformatted to set a local system's time. Commercial, shareware and public domain packages are also available to synchronize system times. Among them are NTP (which is an internet standard), internet daytime, nisttime / usnotime.

Further information on time synchronization may be found at the following Web sites:

<http://www.eecis.udel.edu/~mills/ntp/test.html>

<http://tycho.usno.navy.mil/ntp.html>

<http://www.ccd.bnl.gov/xntp>

<http://www.txdirect.net/users/sfisher/clock.html>

<http://www.is.co.za/resources/ftpsite/tucows/softsync.html>

APPENDIX B - Repudiation and Validation Examples

Repudiation and Validation examples:

When a transaction file is received using the EDM mechanism there are several questions that typically must be answered:

- 1.) Is the HTTP sender (from) valid to send to the HTTP 'to' party?
- 2.) Does the HTTP sender match the party who encrypted and signed the file?
- 3.) Does the HTTP sender match the sender within the file?
- 4.) Is that sender with the data valid to 'speak' for the parties transacting business?

Is the HTTP sender (from) valid to send to the HTTP 'to' party?

The first validation, determining that a party is a valid sender must be done during CGI execution. This is simply a 'look up' verification that the Common Code Identifier 'from' is recognized as a valid sender.

Does the HTTP sender match the party who encrypted and signed the file?

The next validation, determining that the HTTP sender is the same as the signer, requires that the following information be available:

1. The 'from' common code identifier (9 digit D-U-N-S@ Number). This is the second field in the HTTP post message sent to the CGI. This information must be preserved from that earlier process and passed to the 'post-CGI' process.
2. The Pretty Good Privacy (PGP) User ID associated with that same party

To compare these items a 'table' would most likely be established that would allow the post-CGI process to identify that there is a correlation between these identifiers. The origin of the 'from' identifier is the HTTP POST 'from' field. The origin of the PGP user ID is the decryption process. The PGP User ID of the signer is a byproduct of file decryption on a signed file. If PGP is executed from the command line the output would be presented in a format like:

```
Good signature from user "ABC CORP".  
Signature made 1997/05/13 19:30 GMT  
Plaintext filename: test3
```

If PGP is executed using a program interface the User ID that signed the file will be provided in a buffer. Comparing this buffer to the expected User ID would serve to verify this value.

Does the HTTP sender match the sender within the file?

The data file itself indicates (in the case of X12 data) the sender and the intended recipient within the ISA segment. Although this may be the same (D-U-N-S@ Number) as the 'from' data these fields are not standardized. This may require the use of a 'table' to relate these identifiers.

Consider also that, although it is strongly recommended that only a single ISA be contained within a

file, that the process should account for the possibility of several ISA segments. This comparison will ensure that the parties used during translation are in fact the parties that sent, encrypted and signed the data.

Is that sender with the data valid to ‘speak’ for the parties transacting business?

This last validation is listed here only to complete the chain of identity. The process that would evaluate this relationship would typically be the business application. Since we have checked the identity through each step of this process this is the point at which the identity of the sender would finally be verified as having a business relationship to conduct the business specified.



APPENDIX C - Minimum Technical Characteristics and Guidelines for the Developer and User of the Minimum (11/15/1999) Technical Characteristics and Guidelines for the Customer Activities Web Site¹

Browser Characteristics (includes defined GISB current versions):

Features as supported by the latest generally available (GA) versions of both Netscape®² ~~v4.06~~ and Internet Explorer®³ within 6-9 months of such GA version becoming available, including -

- Frames & Nested Frames
- Tables & Nested Tables
- HTML
- Cookies
- JavaScript
- SSL ~~40~~128-bit RSA Encryption
- Style Sheets

Plug-ins (Generally Available (GA) versions within 42-9 months of such GA versions becoming available)

- JAVA®
- ActiveX®⁴ (Plug-in for Netscape®)
- Adobe Acrobat PDF Reader®** footnote 5 Adobe Acrobat® is a registered trademark of Adobe Sytems Incorporated
- Independent Computer Architecture (ICA®) - Protocol used for remote control access to an application

Operating Systems:

Operating systems on a client workstation should be multithreaded and preemptive.

Hardware:

CPU	>= <u>3500</u> MHz
Memory	>= <u>96256</u> MB Physical
Display Resolution	>=1024 x 768, <u>16K colors</u>
Connection	>=56 KB (v.90)

¹ Configuration shown indicates a minimum except where a specific level is established. 'Minimum' implies a level where a reasonable experience for the user may be achieved. These levels also indicate the level that a user may expect that a client has been tested. Results may be less than satisfactory, or may preclude use of a site, if the user chooses to use anything less than those levels shown.

² Netscape® is a registered trademark of Netscape Communications Corp.

³ Internet® Explorer is a registered trademark of Microsoft Corporation.

⁴ ActiveX® is a registered trademark of Microsoft Corporation.

Example Configuration¹

Hardware:	CPU: P5300 MHz or higher Memory: 25696MB Physical Display Resolution: 1024 x 768, 16k colors Pointing Device with left and right click capability
Operating Systems:	Windows® ² 98 Windows® NT 4.0 Windows® 2000
Connection:	56KB (v.90) modem ISDN Direct Connect (T1, Fractional T1, etc.) DSL Cable-Modem
Browser:	Netscape® Communicator/Navigator Microsoft® Internet Explorer
Plug-ins:	JAVA® ActiveX® (Plug-in for Netscape®) Adobe Acrobat Reader® ICA®
Memory - Users who want to have multiple applications or EBBs open simultaneously should consider more memory.	
CPU Speed - Users should be aware that higher CPU speeds may result in better performance.	

¹ Specific products should be reviewed prior to implementation for Year 2000 compliance. Examples provided represent a non-comprehensive set of configurations that a client may use. This example list in no way should be construed as an endorsement by GISB of any specific products. Other products meeting the minimum technical characteristics of the client workstation may be used.

² Windows® is a registered trademark of Microsoft Corporation.

APPENDIX D - ~~Minimal~~ and Suggested ~~(7/31/98)~~—Technical Characteristics and Guidelines for the Developer and User of the Informational Postings Web Site

User technical characteristics provide specifications to the developer on the user environment for which the application will be designed and tested. Likewise, they will serve as guidelines to the user when purchasing the appropriate hardware and software to enable him/her to use the application.

Informational Postings Web Site User Technical Characteristics

	Minimal Minimum	Suggested (7/31/98)
Connection Device:	28.8 KB	Direct Connect
Operating System:	Multi-threaded & Preemptive	
RAM:	128 32 MB	> 128 32 MB
Browser Capabilities:	Cookies & JavaScript Frames & Nested Frames Tables & Nested Tables HTML 3.2	
Display Resolution:	1024x768 , 16k colors	> 1024x768 , 16k colors

Definitions:

~~Minimal~~Minimum user technical characteristics -

The environment and components for which the Web site application is designed and tested. This should include:

- a client environment comprised only of characteristics listed above, and,
- support for all mandated functions in accessing Informational Postings.

Suggested user technical characteristics -

Environment or components not required to perform all mandated functions in accessing Informational Postings, but could provide an enhanced user experience.

Examples of User Workstations Meeting Criteria of Informational Postings Web Site User Characteristics¹

	<u>Minimal/Minimum</u>	<u>Suggested (7/31/98)</u>
Hardware:	Pentium® ² 200 90MHz or equivalent	Pentium® 500 200MHz or greater
RAM:	128 32 MB	> 128 32 MB
Communication Device:	28.8	Direct Connect ISDN Satellite 56 KB modem DSL Cable-Modem
Monitor:	12" Laptop 15" Desktop	> 12" Laptop > 15" Desktop
Display Capabilities:	1024X768 16k colors	> 800 x 600 1024x768 > 256 colors
Operating System:	Windows® 95 System 7® ³ Solaris® ⁴ 2.5	Windows® XP Windows® 98 Windows® NT 4.0 Solaris® 2.6 System 8® Windows® 2000 <u>Windows® ME</u> <u>Linux</u>
Browser:	Microsoft Internet Explorer® Netscape® Communicator	Microsoft Internet Explorer® Netscape® Communicator

¹ Technical implementations above represent a non-comprehensive set of choices which an implementer may use. This list in no way should be construed as an endorsement by GISB of any specific products. Other products supporting technical implementation may be used.

² Pentium® is a registered trademark of Intel Corporation.

³ System 7® and System 8® are registered trademarks of Apple Computers, Inc.

⁴ Solaris® is a registered trademark of Sun Microsystems, Inc.

Informational Postings Web Site Developer Technical Characteristics

User's environment supporting the above minimum characteristics should be able to access all GISB standardized features of Informational Postings Web Sites.

Any other Web technologies may be considered for use by the developer as long as they can be used by the client without requiring special actions including firewall rule changes, use of a specific browser, logons and downloads of special helper applications such as plug-ins, viewers or readers.



APPENDIX E - MINIMUM TECHNICAL CHARACTERISTICS FOR AN EDM SERVER

Allowable TCP Ports (not UDP ports)

HTTP [HTTPS](#) 80, [443](#), 5713, 6112, 6304, 6874, 7403

[SSL 443](#)

ICA® 1494

RMI(Java®) 1099-1100

Java® Telnet 31415

TCP Optional 8001-8020**

[SMTP 25](#)

Allowable UDP Ports (not TCP ports)

Secure ICA 1604

There are other technologies available that would require additional ports to be opened, such as FTP and Telnet. If and when GISB approves such technologies, FTTF will modify this list of allowable ports accordingly. The client-side firewall implementation and client browser settings should permit the downloading and installation of GISB approved plug-ins and modules. Please refer to the GISB defined Minimum Technical Characteristics for Accessing Customer Activities Web Sites for the listing of GISB approved plug-ins and modules.

**The reservation of 20 optional ports was to provide room for implementations such as DCE, IIOF, and load balancing implementations. TSPs should endeavour to minimize the usage of these ports.

[EDM MANUAL TAB2 - TABLE OF CONTENTS]

ICA® is a registered trademark of Citrix Systems Inc.

JAVA® is a registered trademark of Sun Microsystems, Inc.

INTRODUCTION

...

TAB 9 TECHNICAL IMPLEMENTATION - INTERACTIVE FF/EDM

Provides an overview of the business process for Interactive FF/EDM.

TAB 10 Appendix

Appendix A - Reference Guide

Appendix B - Repudiation and Validation Examples

Appendix C - Minimum Technical Characteristics and Guidelines for the Developer and User of the Customer Activities Web Site

Appendix D - Minimum and Suggested Technical Characteristics and Guidelines for the Developer and User of the Informational Postings Web Site

Appendix E - Minimum Technical Characteristics for an EDM Server

[ADDITIONAL CHANGES TO EDM MANUAL]

These changes revise references to HTTP 1.0 to HTTP 1.1. Page numbers are the pdf page numbers of the EDM Manual, Version 1.5.

Page 103

Security

Authentication

Standard 4.3.84 calls for use of Basic Authentication. This is a standard part of the HTTP 1.1 specification. Without use of encryption,...

These changes revise references to HTTP 1.0 (to HTTP 1.1) in the first line of the "gray box" examples on the noted pages.

Page 60

POST /cgi-bin/AS2dispatcher HTTP/1.1

And, just below the gray box, the following text should be changed:

The first line: *POST /cgi-bin/AS2dispatcher HTTP/1.1* indicating that the POST method is used and which program to call.

Page 65

POST /cgi-bin/AS2dispatcher HTTP/1.1

Page 68

POST /cgi-bin/AS2dispatcher HTTP/1.1

Page 79

POST /cgi-bin/AS2dispatcher HTTP/1.1

**NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE
MEETING – WHOLESALE GAS & RETAIL ELECTRIC QUADRANTS
Meeting Materials
June 13, 2002**

4. Subcommittee Reports -- 2002 WGQ Annual Plan

The subcommittee chairs will review the progress towards the 2002 WGQ Annual Plan. The plan is attached. Updates will be provided from:

- Contracts Subcommittee – Cary Metz and Rae McQuade
- EDM Subcommittee – Dick Brooks, Leigh Spangler, Carl Caldwell
- Business Practices Subcommittee – Kim Van Pelt, Greg Lander, Tina Patton, Producer Vacancy, Mike Novak
 - Draft BPS standards for Order 587M
- Information Requirements Subcommittee – Dale Davis, Pete Whatley, Suzanne Calcagno
- Technical Subcommittee and ANSI Subcommittee – Kim Van Pelt
- Publication Process Review Task Force

North American Energy Standards Board

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NORTH AMERICAN ENERGY STANDARDS BOARD 2002 ANNUAL PLAN - WHOLESALE GAS QUADRANT

Item Description	Completion ¹	Assignment
Contracts		
1 Complete the development of the contract for purchases and sales of natural gas. Status: Complete with the exception of credit annex.	1 st Qtr	Contracts Subcommittee
2 Develop the Mexican Addendum to the base contract for purchase and sales of natural gas.	3 rd Qtr	Contracts Subcommittee
3 Build an electronic contract for the base contract for purchase and sales of natural gas.	4 th Qtr	Contracts Subcommittee
9 Modify the Funds Transfer Agreement as necessary after several years of use. Status: Subcommittee work completed.	2 nd Qtr	Contracts Subcommittee
Electronic Delivery Mechanisms and Related Activities		
4 Complete technical implementation of Sandia recommendations. Status: Subcommittee work completed.	1 st Qtr	EDM Subcommittee
5 Explore additional possibilities for partnership with the Department of Energy similar to that of the Sandia report.	2 nd Qtr	EC Officers
6 Review and enhance security standards as required by technological changes.	2 nd Qtr	EDM Subcommittee
7 Develop XML technical implementation for base contract and for scheduling documents necessary to complete the pilot program. Status: Subcommittee work suspended.	4 th Qtr	XML Subcommittee
Standards Implementation		
8 Continue the implementation of FERC Order No. 637 standards as specified in the Order 637 work plan defined by the Order 637 GISB Action Subcommittee.	3 rd Qtr	Assigned by the EC
10 Develop standards as necessary to implement the FERC order as a result of Docket No. RM96-1-019 (Partial Day Recalls).	4 th Qtr	Assigned by the EC

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 so as 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.

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Item Description	Completion ²	Assignment
Provisional Activities³		
Examine report and determine if an "energy day" standard is needed, including assessment of changes to existing GISB standards.		
Determine if a standard transportation services agreement is needed and if so, develop it.		
Determine if a model financial hedging agreement is feasible and if so develop a model financial hedging agreement.		
Develop standards as necessary to implement the FERC order as a result of Docket No. RM01-10-000 (Affiliate Order).		
Program of Standards Maintenance & Fully Staffed Standards Work⁴		
Business Practice Requests	Ongoing	Assigned by the EC on a request by request basis
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 on a request by request basis
Ongoing Interpretations for Clarifying Language Ambiguities	Ongoing	Assigned by the EC on a request by request basis
Ongoing Maintenance of Code Values and Other Technical Matters	Ongoing	Assigned by the EC on a request by request basis

- Notes: (a) Priority is given to action items that are carry-overs from the 2001 Annual Plan.
- (b) Any new activity should be preceded by a request from the submitter after which it will be revisited. The provisional items would only be addressed after a request is submitted or an order is issued by the FERC.

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 so as 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 To the extent that it is determined that any of the provisional activities should be worked upon during the year, the Board has the discretion to modify the annual plan.

⁴ This work is considered routine maintenance and thus the items are not separately numbered.

North American Energy Standards Board

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TO: Business Practices Subcommittee Chairs, Interested Industry Participants
FROM: Rae McQuade, Executive Director
RE: Draft Minutes from the Business Practices Subcommittee Meeting, May 30, 2002
DATE: May 30, 2002

1. Administrative¹

Ms. Van Pelt opened the meeting at 1:05 p.m. CCT and gave the anti-trust advice. Participants on the conference call introduced themselves. The agenda was modified to insert an item between agenda items 2 and 3 to discuss the addition of a new proposed principle and the deletion of existing NAESB WGQ Standard No. 1.3.19 (see page 4 of the May 16-17 final minutes for a proposed principle and the proposed deletion of existing standard 1.3.19 that was never resolved). The agenda was also modified to change agenda item 2 to say "Discussion and Vote of Conforming Changes". The agenda as adopted as modified. The 5/22-23 draft minutes and attachment were modified and adopted as modified.

2. Discussion and Vote of Conforming Changes (see posted workpaper for proposed modifications to 5.3.z7 and 5.1.z1)

- 5.3.z7
- 5.1.z1
- Other modifications, as needed

The Williams workpaper was put forth for discussion and the proposed modification to 5.3.z7 was introduced.

From the workpaper:

5.3.z7 Proposed Standard – Proposed Modification

The deadline for notifying the Transportation Service Provider of a reput is ~~8:30~~ 8:00 a.m. to allow for timely nominations to flow on the next gas day.

Rationale: It is my recollection that we were trying to sync up the reput deadline to be the same as the deadline for the Timely recall notification but when we changed the Timely recall deadline to 8:00 a.m., we failed to go back and change the reput deadline.

Motion:

Motion to adopt the proposed modified standard 5.3.z7 as specified below:

5.3.z7 Proposed Modified Standard

The deadline for notifying the Transportation Service Provider of a reput is ~~8:30~~ 8:00 a.m. to allow for timely nominations to flow on the next gas day.

¹ Each BPS meeting regarding Order 587N is being transcribed. For a full accounting of the discussion from today's meeting, contact the NAESB office for information on ordering the transcript. These minutes will record the discussion points, motions, and voting results. The detailed discussion is captured in the transcripts.

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	For	Against	Total	Balancing Determinant	Balanced For	Balanced Against	Balanced Total
End Users	1	0	1	1	1	0	1
LDCs	2	0	2	2	2	0	2
Services	1	0	1	1	1	0	1
Pipelines	13	0	13	2	2	0	2
Producers	0	0	0	0	0	0	0
	17	0	17	6	6	0	6

motion passes

Proposed Principle 5.1.z1 and the workpaper options were introduced.

From the workpaper:

5.1.z1 Proposed Principle

The Releasing Shipper should provide capacity recall notification to its affected Replacement Shipper(s) at the same time it provides notification to the Transportation Service Provider. The mode of notification should be mutually agreed between the parties.

Question: Do we still need this principle at all now that the language of 5.3.z1 says the Releasing Shipper has to notify the TSP and the First Replacement Shipper? Two options:

Option 1:

Delete Proposed Principle 5.1.z1

Option 2:

Proposed Principle – Proposed Modification

~~The Releasing Shipper should provide capacity recall notification to its affected Replacement Shipper(s) at the same time it provides notification to the Transportation Service Provider.~~ The mode of notification of recall from the Releasing Shipper to the First Replacement Shipper(s) should be mutually agreed between the parties.

Discussion:

It was proposed that a third option be considered – that 5.3.z1 be modified instead. In effect, this would remove any ambiguity about what actions the TSP should take if it was to receive notification from the first replacement shipper that it did not receive notification from the releasing shipper. However, retaining the principle 5.1.z1 as it is currently proposed would preserve the intent that the first replacement shipper be notified of a recall by the releasing shipper.

After some more discussion, the Williams issue was withdrawn and no modifications were proposed to proposed principle 5.1.z1. Participants felt that it was important to note that "its affected Replacement Shipper(s)" used in proposed principle 5.1.z1 and "the first Replacement Shipper" in proposed standard 5.3.z1 reference the same party.

No other modifications to any of the existing standards were proposed.

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Some of the standards were rearranged to place the repute standards after all of the recall standards. The standards are now numbered as specified below:

Cross Reference of Standard, Principle, and Instruction Numbers

Old Number	New Number
5.3.2	5.3.2
5.3.6	5.3.6
5.3.7	5.3.7
5.3.41	5.3.41
5.3.42	5.3.42
5.3.z1	5.3.z1
5.3.z2	5.3.z2
5.3.z3	5.3.z3
5.3.z4	5.3.z4
5.3.z5	5.3.z5
5.3.z10	5.3.z6
5.3.z11	5.3.z7
5.3.z12	5.3.z8
5.3.z15	5.3.z9
5.3.z6	5.3.z10
5.3.z7	5.3.z11
5.1.z1	5.1.z1
IR 1	IR 1
IR 2	IR 2
IR 3	IR 3

The strawman G timeline will not be included in the attach standards, principle, and instructions document, but will be on the recommendation form in the supporting documentation section.

3. Discussion of New Proposed Principle and Deletion of NAESB WGQ Standard No. 1.3.19

(See page 4 of the May 16-17 final minutes for a proposed principle and the proposed deletion of existing standard 1.3.19 that was never resolved.)

From the 5/16-17 Final Minutes:

Proposal:

Replace Standard 1.3.19 with the proposed principle below:

1.3.19 Proposed Modified Standard

~~Overrun quantities should be requested on a separate transaction~~

1.3.z1 Proposed Principle

Overrun quantities may be requested on a separate transaction.

Discussion:

North American Energy Standards Board

1100 Louisiana, Suite 3625, Houston, Texas 77002

Phone: (713) 356-0060, Fax: (713) 356-0067, E-mail: naesb@aol.com

Home Page: www.naesb.org

Mr. Novak noted that during the May 16-17 meeting, a TSP mentioned that even when capacity was recalled, there would be cases where the receipts would continue to flow and deliveries would continue to flow. Under these situations, the shipper could fall into an overrun situation. Mr. Novak suggested that this situation may be reasonable alternative for the replacement shipper, the point operators and the TSP. However Standard 1.3.19, which required overrun nominations to be requested on a separate transaction, might stand in the way. He noted that some pipelines had tariffs that did not require the separate overrun nomination and that FERC considered that practice to be "exceeding the standards". He proposed that standard 1.3.19 could be downgraded to a principle to encourage use of overruns as a replacement for recalled capacity but would permit TSPs who wanted to continue to require separate overrun nominations to do so.

It was discussed that downgrading this standard to a principle would have a regative affect on pipeline systems that are already designed to handle overrun nominations in the manner currently proscribed by standard 1.3.19. After more discussion, Mr. Novak withdrew his proposal to create a new principle and delete existing standard 1.3.19.

4. Next Meeting(s) and Agenda

The draft meeting minutes will be adopted at the "regular" BPS conference call on 6/6/02.

5. Adjourn

The meeting was adjourned.

North American Energy Standards Board

1100 Louisiana, Suite 3625, Houston, Texas 77002
 Phone: (713) 356-0060, Fax: (713) 356-0067, E-mail: naesb@aol.com
 Home Page: www.naesb.org

Meeting Attendees and Voting Record

Attendees	Organization	05/30 (nv) – not voting	Vote 1	NAESB Member?
Pipelines:				
Kim Van Pelt	CMS-Panhandle Eastern	√	Y	√
Mark Wilke	CMS-Trunkline Gas	√	Y	X
Kathryn Burch	Texas Eastern	√	Y	√
Bill Griffith	Colorado Interstate Gas	√	Y	√
Sally Wood	El Paso Natural Gas	√	Y	
Randy Young	Gulf South Pipeline	√	Y	√
Donna Scott	Enron-Transwestern	√	Y	√
Kelly Wachter	Williston Basin	√	Y	√
Charlie Bass	ANR	√	absent	√
Mark Gracey	Tennessee Gas Pipeline	√	Y	
Dale Davis	Williams Gas Pipeline	√	Y	√
Tom Gwilliam	Iroquois Gas Transmission	√	Y	√
Rita Bianchi	Northern Natural Gas	√	Y	X
Stephanie Marks	Dominion	√	Y	√
Services:				
Tammy Lee Jaquet	Duke Energy Trading & Mktg	√	Y	√
Producers:				
End Users:				
Kirstin Gibbs	Sutherland Asbill & Brennan	√	Y	X
LDCs:				
Mike Novak	National Fuel Gas Dist.	√	Y	√
Audrey Bragg	Washington Gas	√	Y	√
Associations:				
GISB Office:				

Bold signifies a BPS Chair

**NAESB WGQ Business Practices Subcommittee
Proposed Recall Standards, Principle, and Instructions**

5.3.2 Proposed Modified NAESB WGQ Standard

For biddable releases (less than 1 year):

- offers should be tendered by 12:00 P.M. on a Business Day;
- open season ends no later than 1:00 P.M. on a Business Day (evaluation period begins at 1:00 P.M. during which contingency is eliminated, determination of best bid is made, and ties are broken);
- evaluation period ends and award posting if no match required at 2:00 P.M.;
- match or award is communicated by 2:00 P.M.;
- match response by 2:30 P.M.;
- where match required, award posting by 3:00 P.M.;
- contract issued within one hour of award posting (with a new contract number, when applicable); nomination possible beginning at the next available nomination cycle for the effective date of the contract. (Central Clock Time)

For biddable releases (1 year or more):

- offers should be tendered by 12:00 P.M. four Business Days before award;
 - open season ends no later than 1:00 P.M. on the Business Day before timely nominations are due (open season is three Business Days);
- evaluation period begins at 1:00 P.M. during which contingency is eliminated, determination of best bid is made, and ties are broken;
- evaluation period ends and award posting if no match required at 2:00 P.M.;
- match or award is communicated by 2:00 P.M.;
- match response by 2:30 P.M.;
- where match required, award posting by 3:00 P.M.;
- contract issued within one hour of award posting (with a new contract number, when applicable); nomination possible beginning at the next available nomination cycle for the effective date of the contract. (Central Clock Time)

For non-biddable releases:

Timely Cycle

- posting of prearranged deals not subject to bid are due by 10:30 A.M. ~~on a Business Day~~;
- contract issued within one hour of award posting (with a new contract number, when applicable); nomination possible beginning at the next available nomination cycle for the effective date of the contract. (Central Clock Time)

Evening Cycle

- posting of prearranged deals not subject to bid are due by 5:00 P.M. ~~on a Business Day~~;
- contract issued within one hour of award posting (with a new contract number, when applicable); nomination possible beginning at the next available nomination cycle for the effective date of the contract. (Central Clock Time)

Intraday 1 Cycle

- posting of prearranged deals not subject to bid are due by 9:00 A.M. ~~on a Business Day~~;
- contract issued within one hour of award posting (with a new contract number, when applicable); nomination possible beginning at the next available nomination cycle for the effective date of the contract. (Central Clock Time)

Intraday 2 Cycle

- posting of prearranged deals not subject to bid are due by 4:00 P.M. ~~on a Business Day~~;
- contract issued within one hour of award posting (with a new contract number, when applicable); nomination possible beginning at the next available nomination cycle for the effective date of the contract. (Central Clock Time)

5.3.6 Proposed Deleted NAESB WGQ Standard

~~If the releasing shipper wishes to recall capacity to be effective for a gas day, the notice should be provided to the transportation service provider and the acquiring shipper no later than 8 A.M. Central Clock Time on nomination day.~~

5.3.7 Proposed Modified NAESB WGQ Standard

~~There should be no partial day recalls of capacity.~~ Transportation service providers should support the function of reputting by releasing shippers.

5.3.41 Proposed Modified NAESB WGQ Standard

The display of capacity release data for an Offer should be selected from a summary list of Offers. The summary list should be comprised of the following:

- Offer Number
- Release Term Start Date
- Release Term End Date
- Location Information as applicable, and/or navigation to detail
- Maximum Offer Quantity – Contract
- Biddable Deal Indicator
- Recall notification period(s) as indicated in the Offer
- Business Day recall notification restriction
- other data elements, if applicable

5.3.42 Proposed Modified NAESB WGQ Standard

A mechanism should be provided to allow the Capacity Release offer summary list to be filtered by:

- Offer Number
- Release Term Start Date
- Release Term End Date
- Biddable Deal Indicator
- Recall notification period(s) as indicated in the Offer
- Business Day recall notification restriction

The mechanism should also allow filtering based upon the status of the offers.

5.3.z1 Proposed Standard

All Transportation Service Providers (TSPs) should support the following recall notification periods for all released capacity subject to recall rights:

- (i) Timely Recall Notification:
 - (a) A Releasing Shipper recalling capacity should provide notice of such recall to the TSP and the first Replacement Shipper no later than 8:00 a.m.;
 - (b) The TSP should provide notification of such recall to all affected Replacement Shippers no later than 9:00 a.m. (Central Clock Time);
- (ii) Early Evening Recall Notification:
 - (a) A Releasing Shipper recalling capacity should provide notice of such recall to the TSP and the first Replacement Shipper no later than 3:00 p.m.;
 - (b) The TSP should provide notification of such recall to all affected Replacement Shippers no later than 4:00 p.m. (Central Clock Time);
- (iii) Evening Recall Notification:
 - (a) A Releasing Shipper recalling capacity should provide notice of such recall to the TSP and the first Replacement Shipper no later than 5:00 p.m.;
 - (b) The TSP should provide notification of such recall to all affected Replacement Shippers no later than 6:00 p.m. (Central Clock Time);
- (iv) Intraday 1 Recall Notification:

- (a) A Releasing Shipper recalling capacity should provide notice of such recall to the TSP and the first Replacement Shipper no later than 7:00 a.m.;
 - (b) The TSP should provide notification of such recall to all affected Replacement Shippers no later than 8:00 a.m. (Central Clock Time); and
- (v) Intraday 2 Recall Notification:
- (a) A Releasing Shipper recalling capacity should provide notice of such recall to the TSP and the first Replacement Shipper no later than 2:30 p.m.;
 - (b) The TSP should provide notification of such recall to all affected Replacement Shippers no later than 3:30 p.m. (Central Clock Time).

5.3.z2 Proposed Standard

For recall notification provided to the Transportation Service Provider (TSP) prior to the recall notification deadline specified in NAESB WGQ Standard No. [5.3.z1] and received between 7:00 a.m. and 5:00 p.m., the TSP should provide notification to all affected Replacement Shippers no later than one hour after receipt of such recall notification.

For recall notification provided to the TSP after 5:00 p.m. and prior to 7:00 a.m., the TSP should provide notification to all affected Replacement Shippers no later than 8:00 a.m. after receipt of such recall notification. (Central Clock Time)

5.3.z3 Proposed Standard

When a Transportation Service Provider (TSP) sends Internet E-mail notification for recalling of capacity to each affected Replacement Shipper, the subject line of the E-mail should include the following information separated by commas in the following order: (1) "Recall", (2) the recall notification period, (3) the Effective Date in YYYYMMDD format, (4) the name or abbreviation of the TSP (excluding commas), and (5) the TSP's D-U-N-S® Number.

The body of such E-mail notification should contain at least the affected Replacement Shipper's Contract Number, the quantity of capacity being recalled, and the Offer Number or Award Number, if necessary to uniquely identify the capacity being recalled.

Where supported by the TSP, for recalls that are effective at non-standard times, the appropriate recall notification period should be included in the subject line and the effective time of the recall should be in the body of the E-mail.

Where TSPs offer capacity recall notification mechanisms in addition to Internet E-mail, the notification should include at least the same level of information.

5.3.z4 Proposed Standard

The Replacement Shipper should provide the Transportation Service Provider (TSP) with no more than two Internet E-mail addresses to be used for recall notification. The obligation of the TSP to provide notification is waived until at least one of the addresses has been provided.

5.3.z5 Proposed Standard

The Releasing Shipper should provide capacity recall notification to the Transportation Service Provider (TSP) through the TSP's Customer Activities Website. The recall notification should specify the recall notification period for the specified effective gas day, as well as any other information needed to uniquely identify the capacity being recalled.

5.3.z6 Proposed Standard (formerly 5.3.z10)

Recalled capacity notices should indicate whether penalties will apply for the gas day for which quantities are reduced due to a capacity recall.

5.3.z7 Proposed Standard (formerly 5.3.z11)

A Transportation Service Provider should support the ability for the Releasing Shipper to specify, as a condition of a capacity release offer, which recall notification period(s), as provided in NAESB WGQ Standard No. [5.3.z1], will be available for use by the parties.

5.3.z8 Proposed Standard (formerly 5.3.z12)

A Transportation Service Provider should support the ability for the Releasing Shipper to specify, as a condition of a release, whether the Releasing Shipper's recall notification must be provided exclusively on a Business Day.

5.3.z9 Proposed Standard (formerly 5.3.z15)

Affected Replacement Shippers should manage internal distribution of notifications of recall received from a Transportation Service Provider.

5.3.z10 Proposed Standard (formerly 5.3.z6)

When capacity is recalled, it may not be reup for the same gas day.

5.3.z11 Proposed Modified Standard (formerly 5.3.z7)

The deadline for notifying the Transportation Service Provider of a reup 8:00 a.m. to allow for timely nominations to flow on the next gas day.

5.1.z1 Proposed Principle

The Releasing Shipper should provide capacity recall notification to its affected Replacement Shipper(s) at the same time it provides notification to the Transportation Service Provider. The mode of notification should be mutually agreed between the parties.

Proposed Modified Instruction to IR 1

Instruct Information Requirements to accommodate, in the capacity release offer process, the selection of all recall notification periods and an indication of Business Day recall notification restrictions.

Proposed Instruction to IR 2

Instruct Information Requirements to accommodate the business conditional sending of an Internet E-mail address by Replacement Shippers for the use in capacity release recall notification.

Proposed Instruction to IR 3

BPS instructs the Information Requirements Subcommittee to accommodate the sending of a Reduction Reason Code in the confirmation and/or scheduling process(es) indicating when a quantity is reduced as a result of recalled capacity.

**NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE
MEETING – WHOLESALE GAS & RETAIL ELECTRIC QUADRANTS
Meeting Materials
June 13, 2002**

5. Recommended Standards

- One recommendation is presented for consideration by the WGQ:
 - Funds Transfer Agent Agreement
- To vote to adopt the recommendation, the WGQ members of the EC will vote with a super-majority (at least 67% affirmative votes total from the wholesale gas quadrant EC members of the organization, including at least 40% affirmative votes from each segment of the wholesale gas quadrant EC).
- The comment period concludes on June 10, after which the comments will be posted and forwarded to the EC book recipients electronically.
- A notational ballot is provided in this section for those WGQ EC members unable to attend the meeting in person or by phone. It should be forwarded to the NAESB office by June 12, end of business.



North American Energy Standards Board

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via email and posting

TO: NAESB Members and Interested Industry Participants
FROM: Rae McQuade, Executive Director
RE: Wholesale Gas Quadrant Request For Comments
DATE: May 14, 2002

An industry comment period begins today and ends on June 10 for the recommendation attached. The Executive Committee will meet in Seattle on June 13 to review this recommendation and consider it for vote as a NAESB Wholesale Gas Quadrant (WGQ) standard or revision to NAESB WGQ standards. The recommendation can be accessed from the NAESB Web site, but is also attached to this request for comment¹. All comments received by the NAESB office by end of business on June 10 will be posted on the Home Page and forwarded to the WGQ EC members for their consideration. If you have difficulty retrieving this document, please call the NAESB office at (713) 356-0060.

Best Regards,

Rae McQuade

cc: Jay Costan

¹ All recommendations other than clarifications/interpretations can be found on the "Request For Standards" page (<http://www.naesb.org/req.htm>), which is accessible from the NAESB main page. Similarly, Clarifications/Interpretations (Cxxxxx) can be found on the "Clarification Requests" page (<http://www.naesb.org/clar.htm>).

NAESB FUNDS TRANSFER AGENT AGREEMENT
(Natural Gas)

This NAESB Funds Transfer Agent Agreement ("FTA Agreement") is made and entered into as of _____,] by [Marketer] ("Buyer"), [Bank] ("Funds Transfer Agent" or "FTA"), and [Supplier] ("Seller").

- a) The Buyer, Seller, and Funds Transfer Agent agree that Buyer's purchases from Seller under this Funds Transfer Agreement shall only be resold to _____ (Buyer's Repurchaser).
- b) There is a separate and distinct FTA Agreement between the Seller, Buyer, and Funds Transfer Agent for each of the Buyer's repurchasers, which reflects the underlying terms and conditions of the Base Contract between the Buyer and such repurchaser.
- c) This FTA Agreement contemplates an instantaneous transfer of title to the Gas from Seller to Buyer to Buyer's Repurchaser, so that all parties agree that the transportation of the Gas is only to be nominated to delivery points that belong to the Buyer's Repurchaser.

ARTICLE 1 SCOPE OF AGREEMENT

1.1. Special Provision: This FTA Agreement constitutes a Special Provision to that certain NAESB Base Contract for Sale and Purchase of Natural Gas dated _____, between Buyer and Seller ("Base Contract"), and is intended to supplement the General Terms and Conditions ("GT&C") affecting all transactions thereunder wherein Buyer and Seller assume the respective roles as indicated in the first paragraph of this FTA Agreement. Capitalized terms used in this FTA Agreement, which are not herein defined, will have the meanings ascribed to them in the GT&C.

1.2. Term: This FTA Agreement shall commence on _____, and continue on a Month-to-Month basis until terminated by any party upon 30 Days written notice to the other parties; provided, however, that this FTA Agreement may not be terminated prior to the expiration of the latest Delivery Period of any Transaction Confirmation(s) previously agreed to by the parties subject to this FTA Agreement. The obligation to make payment hereunder, including any related adjustments, shall survive the termination or cancellation of this FTA Agreement.

1.3. Appointment of Funds Transfer Agent ("FTA"): Seller and Buyer hereby appoint FTA as their agent under this FTA Agreement and all related documents, instruments, and agreements ("Related Agreement(s)"), and authorize the FTA, in such capacity, to exercise such powers and perform such duties as are expressly delegated to the FTA by the terms of this FTA Agreement and the Related Agreements, together with such other powers as are reasonably incidental thereto. The FTA shall not have any duties or responsibilities to, or any fiduciary relationship with, Buyer or Seller, and no implied covenants, functions, responsibilities, duties, obligations, or liabilities shall be read into this FTA Agreement or any Related Agreement or otherwise exist with respect to the FTA, except those expressly set forth herein including those identified in Section 3.1.

ARTICLE 2 TRANSACTION PROCEDURE

2.1. Modification to Transaction Procedure and Transaction Confirmation to Base Contract: The parties will use the following Transaction Confirmation procedure in lieu of the procedure set out in Sections 1.2 and 1.3 of the GT&C. (An example of this form of Transaction Confirmation is attached as Exhibit A-1.)

2.2. Execution of Transaction Confirmation By Buyer And Seller: Should Buyer and Seller come to an agreement regarding a Gas purchase and sale transaction for a particular Delivery Period subject to this FTA Agreement, the Confirming Party shall, and the other party may, record that agreement on a Transaction Confirmation and communicate such Transaction Confirmation by facsimile, to the other party and to the FTA by the close of the Business Day following the date of agreement. If a sending party's Transaction Confirmation is agreeable to the receiving party, the receiving party will execute the Transaction Confirmation and communicate copies thereof to the sending party and to the FTA by facsimile transmission by the close of the Business Day following receipt. Buyer and Seller will assign to each Transaction Confirmation the same identification number as Buyer's Repurchaser assigns to the corresponding Transaction Confirmation between Buyer and Buyer's Repurchaser.

2.3. Confirmation of Transaction by FTA: Upon the FTA's receipt of a Transaction Confirmation executed by both Buyer and Seller, FTA will verify (i) that Buyer has contracted with Buyer's Repurchaser to take delivery of a like quantity of Gas at the Delivery Point(s) and under the same performance obligation (Firm or Interruptible) as identified on the Transaction Confirmation; (ii) that Buyer's Repurchaser has agreed to make payment through the FTA of the funds due for its purchase of the Gas delivered and accepted at such Delivery Point(s); and (iii) that the price to be paid by the Buyer's Repurchaser for such Gas is not less than the price set out on the Transaction Confirmation between Buyer and Seller. The FTA will confirm its verification within 24 hours of its receipt of the

executed Transaction Confirmation(s) by executing the FTA Confirmation Statement, as provided below, as a Special Condition at the bottom of the Transaction Confirmation and returning copies of such executed FTA Confirmation Statement to Buyer and Seller by facsimile transmission.

Special Condition - FTA Confirmation Statement

[Bank], as the Funds Transfer Agent (FTA), has reviewed the foregoing Transaction Confirmation and hereby confirms to Seller and Buyer that it shall make payment on behalf of Buyer to Seller for the Gas delivered subject to this Transaction Confirmation pursuant to the terms and conditions of its FTA Agreement with Buyer and Seller. FTA further confirms that Buyer's Repurchaser has contracted for the repurchase of a corresponding quantity of Gas at the Delivery Point(s) identified above, under the same performance obligation (Firm or Interruptible) and at a price greater than the price set out above, and that Buyer's Repurchaser has agreed to make payments for such Gas directly to FTA.

[Bank]: _____

2.4. **Confirmation Execution Required:** If Seller or Buyer has not received the FTA's Confirmation Statement within 24 hours after communication of the executed Transaction Confirmation to FTA, such party shall contact FTA and the other party by telephone regarding such non-receipt. The parties acknowledge that their agreement will not be binding until FTA executes its FTA Confirmation Statement and communicates a copy of such to Buyer and to Seller.

2.5. **No Modification:** A fully executed and confirmed Transaction Confirmation may not be modified without the written consent of Buyer, Seller, and FTA. In the event of a conflict among the terms of (i) a Transaction Confirmation; (ii) the Base Contract, including any Special Provisions; and (iii) the GT&C, the terms of the documents shall govern in the priority listed in this sentence.

ARTICLE 3 PAYMENTS

3.1. **Payment From FTA:** FTA shall pay Seller by wire transfer for the benefit of Buyer on the next Business Day following receipt of funds paid by Buyer's Repurchaser, and in accordance with FTA wire instructions contained in Section 3.2 below. Additionally, Buyer will furnish to FTA a copy of Seller's invoice, which will determine the amount of the wire transfer. Buyer shall not be required to enter into any other contractual or other arrangements in order to effectuate payments to Seller. FTA's obligation to make payment to Seller hereunder is specifically conditioned upon FTA's receipt of funds from Buyer's Repurchaser. Funds received from Buyer's Repurchaser shall be held in trust by the FTA for the benefit of the Seller to the extent of the purchase price owing from the Buyer to the Seller.

3.2. **Payment Address:** All payments from Buyer to Seller shall be sent through FTA via Fed Funds to Seller at the address set out herein. Only Seller may request revisions to the address specified for payment herein, which requests shall not be made more than two times per year, unless due to merger or mandated by State or Federal regulations.

[Supplier] - Wire Transfer Account
Bank: [Supplier's Bank], [City, State]
Account No. [000-00-000000] ABA # [000000000]
Invoice Reference No. _____

Please include invoice reference number _____ in the text field of your wire transfer.

ARTICLE 4 NOTICES

4.1. **Notice Requirements:** Any notice provided for in this FTA Agreement, or any notice which any party may desire to give to the others, shall be sent by facsimile or other mutually acceptable electronic means, and confirmed by a telephone call as soon as possible during common business hours, to the contacts set out below.

4.2. Notices to FTA	
Primary Contact:	Emergency Contact:
[name]	[name]
Telephone No:	Telephone No:
Facsimile No:	Facsimile No:

4.3. Notices to Buyer:	
Primary Contact:	Emergency Contact:
[name]	[name]
Telephone No:	Telephone No:
Facsimile No:	Facsimile No:

4.4. Notices to Seller:

Primary Contact:

[name]

Telephone No:

Facsimile No:

Emergency Contact:

[name]

Telephone No:

Facsimile No:

4.5. Change of Contacts: Any party may change the designated contact and/or telephone and/or facsimile numbers for notices upon seven Days written notice.

As evidence of their agreement hereto, the parties have caused this FTA Agreement to be duly executed in triplicate originals by their authorized representatives as of the date first written above.

BUYER:

SELLER:

By: _____
Name: _____
Title: _____

By: _____
Name: _____
Title: _____

FUNDS TRANSFER AGENT:

By: _____
Name: _____
Title: _____

**SPECIAL PROVISION
TO THE
NAESB BASE CONTRACT FOR SALE AND PURCHASE OF NATURAL GAS**

This Special Provision is made and entered into as of _____, and amends that certain NAESB Base Contract for Sale and Purchase of Natural Gas dated _____, between [Repurchaser] and [Marketer] ("Base Contract"), and is intended to supplement the General Terms and Conditions ("GT&C") affecting all Transactions where [Repurchaser] is buyer, hereinafter referred to as Repurchaser, and [Marketer] is seller, hereinafter referred to as Marketer. Capitalized terms used in this Agreement, which are not herein defined, will have the meanings ascribed to them in the GT&C.

1. **DEFINITION OF "FTA"**: The term "FTA" or "Funds Transfer Agent" will refer to:

[Bank]

[Bank's address]

2. **CONFIRMATION OF TRANSACTION BY FTA**: Repurchaser and Marketer will send copies of their respective periodic Transaction Confirmations to FTA. Repurchaser will obtain confirmation by the FTA that Marketer has contracted with a supplier to deliver a like quantity of Gas at the Delivery Point(s) identified on the Transaction Confirmation, under the same performance obligation (Firm or Interruptible) and at a price no greater than the price set out on the Transaction Confirmation between Repurchaser and Marketer. Such confirmation will be documented by the FTA's execution of the FTA Confirmation Statement, as provided below, as a Special Condition at the bottom of the Transaction Confirmation sent by FTA to Marketer and to Repurchaser. (An example of this form of Transaction Confirmation is attached as Exhibit A-2.)

Special Condition - FTA Confirmation Statement

_____, as the Funds Transfer Agent (FTA), has reviewed the foregoing Transaction Confirmation and confirms that Marketer has contracted for delivery of a corresponding quantity of Gas at the Delivery Point(s) identified above, under the same performance obligation and at a price no greater than the price set out above. FTA will accept payment from Repurchaser on behalf of Marketer under the terms and conditions of the Base Contract.

[FTA]: _____

3. **NO MODIFICATION**: The payment instructions may not be modified during the operative period of a binding Transaction Confirmation. Any modification to a binding Transaction Confirmation must be in the form of a revised Transaction Confirmation and subject to the same confirmation process set out in paragraph 2 above.

4. **NOTIFICATION**: Repurchaser and Marketer agree to furnish to the FTA a copy of this Special Provision and each operative Transaction Confirmation, substantially in the form of Exhibit A-2. Repurchaser and Marketer hereby advise FTA that any information furnished hereunder is confidential.

5. **OPTION OF REPURCHASER**: The Repurchaser has the option to specify the names of suppliers authorized to supply the Gas to Marketer. Therefore, Repurchaser and Marketer agree that Gas sold to Repurchaser under this Special Provision shall be purchased only from the companies listed below. If no suppliers are listed below, any supplier shall be deemed acceptable to Repurchaser. Repurchaser may amend the authorized suppliers list for future transactions by written notice to the Marketer and to the FTA, so long as the change(s) are made prior to the fifteenth Day of the Month preceding the Month of delivery.

Authorized Suppliers List

REPURCHASER:

MARKETER:

By: _____

By: _____

Name: _____

Name: _____

Title: _____

Title: _____

Date: _____

Date: _____

**TRANSACTION CONFIRMATION EXHIBIT A-1
FOR IMMEDIATE DELIVERY**

Date: _____

Transaction Confirmation #: (1) A-1

This Transaction Confirmation is subject to the Base Contract between Seller and Buyer dated _____. The terms of this Transaction Confirmation are binding unless disputed in writing within 2 Business Days of Receipt unless otherwise specified in the Base Contract.

SELLER: [Supplier] _____ _____ _____ Attn: _____ Phone: _____ Fax: _____ Base Contract No.: _____	BUYER: [Marketer] _____ _____ _____ Attn: _____ Phone: _____ Fax: _____ Base Contract No.: _____
---	--

Performance Obligation: Firm (Fixed) Interruptible (2) A-1

(3) A-1 Daily Quantity	(4) A-1 Delivery Point(s)	(5) A-1 Price \$/MMBtu (Dth)	(6) A-1 Delivery Period

Special Condition: FTA Confirmation Statement

Seller: _____ By: _____ (7) A-1 Title: _____ Date: _____	Buyer: _____ By: _____ (8) A-1 Title: _____ Date: _____
--	---

BUYER AND SELLER AGREE THAT THE PAYMENT INSTRUCTIONS MAY NOT BE MODIFIED DURING THE OPERATIVE PERIOD OF THIS BINDING TRANSACTION CONFIRMATION.

FTA Confirmation Statement:

[Bank], as the Funds Transfer Agent (FTA), has reviewed the foregoing Transaction Confirmation and hereby confirms to Seller and Buyer that it shall make payment on behalf of Buyer to Seller for the Gas delivered subject to this Transaction Confirmation pursuant to the terms and conditions to its FTA Agreement with Buyer and Seller. FTA further confirms that Buyer's Repurchaser has contracted for the repurchase of a corresponding quantity of Gas at the Delivery Point(s) identified above, under the same performance obligation and at a price greater than the price set out above, and that Buyer's Repurchaser has agreed to make payments for such Gas directly to FTA.

[Bank] _____
 Name: _____
 Title: _____
 Date: _____

**TRANSACTION CONFIRMATION EXHIBIT A-2
FOR IMMEDIATE DELIVERY**

Date: _____

Transaction Confirmation #: _____

This Transaction Confirmation is subject to the Base Contract between Seller and Buyer dated _____. The terms of this Transaction Confirmation are binding unless disputed in writing within 2 Business Days of Receipt unless otherwise specified in the Base Contract.

<p>SELLER: [Marketer]</p> <p>_____</p> <p>_____</p> <p>Attn: _____</p> <p>Phone: _____</p> <p>Fax: _____</p> <p>Base Contract No.: _____</p>	<p>BUYER: [Repurchaser]</p> <p>_____</p> <p>_____</p> <p>Attn: _____</p> <p>Phone: _____</p> <p>Fax: _____</p> <p>Base Contract No.: _____</p>
---	---

Performance Obligation: ____ Firm (Fixed) ____ Interruptible

Daily Quantity	Delivery Point(s)	Price \$/MMBtu (Dth)	Delivery Period

Special Condition: FTA Confirmation Statement

<p>Seller: _____</p> <p>By: _____</p> <p>Title: _____</p> <p>Date: _____</p>	<p>Buyer: _____</p> <p>By: _____</p> <p>Title: _____</p> <p>Date: _____</p>
---	--

BUYER AND SELLER AGREE THAT THE PAYMENT INSTRUCTIONS MAY NOT BE MODIFIED DURING THE OPERATIVE PERIOD OF THIS BINDING TRANSACTION CONFIRMATION.

FTA Confirmation Statement:

[Bank], as the Funds Transfer Agent (FTA), has reviewed the foregoing Transaction Confirmation and confirms that Marketer has contracted for delivery of a corresponding quantity of Gas at the Delivery Point(s) identified above, under the same performance obligation and at a price no greater than the price set out above. FTA will accept payment from Repurchaser on behalf of Marketer under the terms and conditions of the Base Contract.

[Bank] _____

Name: _____

Title: _____

Date: _____

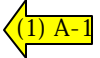

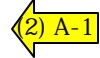



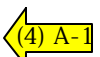

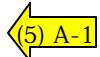

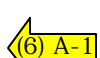
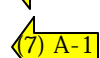

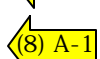

FTA Agreement Instructions

The FTA Agreement is composed of two basic documents, which are Agreement #1 between the Producer/Supplier, the WMBE and the Bank, and Agreement #2 between the Repurchaser and the WMBE. The Bank's administration of these documents occurs at two different phases of each transaction, which are the Transaction Confirmation Phase of Exhibit A-1 and Exhibit A-2, and the Funds Transfer Phase.

Transaction Confirmation (see EXHIBIT A-1 and EXHIBIT A-2)

The Transaction Confirmation process should be completed by the end of the month preceding the month of Delivery. Therefore, the Producer/Supplier will have received from the FTA Bank a fully executed Exhibit A-1 prior to the flow of gas on the first day of the Delivery month.

The Bank will verify eight (8) items on the Exhibit A-1 and eight (8) items on the Exhibit A-2, which are as follows:

1.  (1) A-1 &  (1) A-2 – the Transaction Confirmation number is the same on both Exhibits.
2.  (2) A-1 &  (2) A-2 – the Performance Obligation is the same, both “Firm Fixed” or both “Interruptible” on both Exhibits.
3.  (3) A-1 &  (3) A-2 – the Daily Quantity is the same on both Exhibits.
4.  (4) A-1 &  (4) A-2 – the Delivery Point is at the same place on both Exhibits.
5.  (5) A-1 &  (5) A-2 – the (5) A-2 price is greater than the (5) A-1 price, so that the deal is on at a positive profit margin.
6.  (6) A-1 &  (6) A-2 – the Delivery Period is for the same time period on both Exhibits.
7.  (7) A-1 &  (7) A-2 – both Exhibits have been signed by the Sellers, as provided for.
8.  (8) A-1 &  (8) A-2 – both Exhibits have been signed by the Buyers, as provided for.

After the above verification process has been completed and if applicable, the FTA confirms that the Supplier is on the Buyer's Authorized Suppliers List, the Bank signs the bottom of the Exhibit A-2 and faxes it back to the Repurchaser and the WMBE, and then the Bank signs the bottom of the Exhibit A-1 and faxes it back to the Producer/Supplier and the WMBE. This completes the Transaction Confirmation phase. This repeats once a year for one-year deals and once a month for one-month deals.

Flow of Funds of FTAA (see Flow of Funds of FTAA diagram)

On the 25th Day of the Month following the Month of Delivery, the Bank will receive Payment Instructions and a copy of the Producer/Supplier's Invoice from the WMBE. On or about the 25th Day of the Month following the Month of Delivery, the Repurchaser will transfer funds into the “WMBE Account Controlled by Bank.” The FTA will transfer to the Producer/Supplier the indicated amount of funds on the next Business Day after receipt of payment. The remainder of the funds in the “WMBE Account Controlled by Bank” (i.e., the Profit Margin) will be transferred to the WMBE. This transfer of funds will occur each month following a month in which the gas was delivered in accordance with the operative Exhibit A-1 and Exhibit A-2.

**TRANSACTION CONFIRMATION EXHIBIT A-1
FOR IMMEDIATE DELIVERY**





Date: _____

Transaction Confirmation #: _____  (1) A-1



This Transaction Confirmation is subject to the Base Contract between Seller and Buyer dated _____. The terms of this Transaction Confirmation are binding unless disputed in writing within 2 Business Days of Receipt unless otherwise specified in the Base Contract.

<p>SELLER: [Supplier]</p> <p>_____</p> <p>_____</p> <p>Attn: _____</p> <p>Phone: _____</p> <p>Fax: _____</p> <p>Base Contract No.: _____</p>	<p>BUYER: [Marketer]</p> <p>_____</p> <p>_____</p> <p>Attn: _____</p> <p>Phone: _____</p> <p>Fax: _____</p> <p>Base Contract No.: _____</p>
---	--

Performance Obligation: _____ Firm (Fixed) _____ Interruptible  (2) A-1

(3) A-1  Daily Quantity	(4) A-1  Delivery Point(s)	(5) A-1  Price \$/MMBtu (Dth)	(6) A-1  Delivery Period

Special Condition: FTA Confirmation Statement

<p>Seller: _____</p> <p>By: _____  (7) A-1</p> <p>Title: _____</p> <p>Date: _____</p>	<p>Buyer: _____</p> <p>By: _____  (8) A-1</p> <p>Title: _____</p> <p>Date: _____</p>
---	--

BUYER AND SELLER AGREE THAT THE PAYMENT INSTRUCTIONS MAY NOT BE MODIFIED DURING THE OPERATIVE PERIOD OF THIS BINDING TRANSACTION CONFIRMATION.

FTA Confirmation Statement:

[Bank], as the Funds Transfer Agent (FTA), has reviewed the foregoing Transaction Confirmation and hereby confirms to Seller and Buyer that it shall make payment on behalf of Buyer to Seller for the Gas delivered subject to this Transaction Confirmation pursuant to the terms and conditions to its FTA Agreement with Buyer and Seller. FTA further confirms that Buyer's Repurchaser has contracted for the repurchase of a corresponding quantity of Gas at the Delivery Point(s) identified above, under the same performance obligation and at a price greater than the price set out above, and that Buyer's Repurchaser has agreed to make payments for such Gas directly to FTA.

[Bank]

Name: _____

Title: _____

Date: _____

**TRANSACTION CONFIRMATION EXHIBIT A-2
FOR IMMEDIATE DELIVERY**

Date: _____

Transaction Confirmation #: _____ (1) A-2

This Transaction Confirmation is subject to the Base Contract between Seller and Buyer dated _____ . The terms of this Transaction Confirmation are binding unless disputed in writing within 2 Business Days of Receipt unless otherwise specified in the Base Contract.

SELLER: [Marketer] _____ _____ Attn: _____ Phone: _____ Fax: _____ Base Contract No.: _____	BUYER: [Repurchaser] _____ _____ Attn: _____ Phone: _____ Fax: _____ Base Contract No.: _____
--	--

Performance Obligation: Firm (Fixed) Interruptible (2) A-2

(3) A-2 → Daily Quantity	(4) A-2 → Delivery Point(s)	(5) A-2 → Price \$/MMBtu (Dth)	(6) A-2 → Delivery Period

Special Condition: FTA Confirmation Statement

Seller: _____ By: _____ (7) A-2 Title: _____ Date: _____	Buyer: _____ By: _____ (8) A-2 Title: _____ Date: _____
--	---

BUYER AND SELLER AGREE THAT THE PAYMENT INSTRUCTIONS MAY NOT BE MODIFIED DURING THE OPERATIVE PERIOD OF THIS BINDING TRANSACTION CONFIRMATION.

FTA Confirmation Statement:
 [Bank], as the Funds Transfer Agent (FTA), has reviewed the foregoing Transaction Confirmation and confirms that Marketer has contracted for delivery of a corresponding quantity of Gas at the Delivery Point(s) identified above, under the same performance obligation and at a price no greater than the price set out above. FTA will accept payment from Repurchaser on behalf of Marketer under the terms and conditions of the Base Contract.

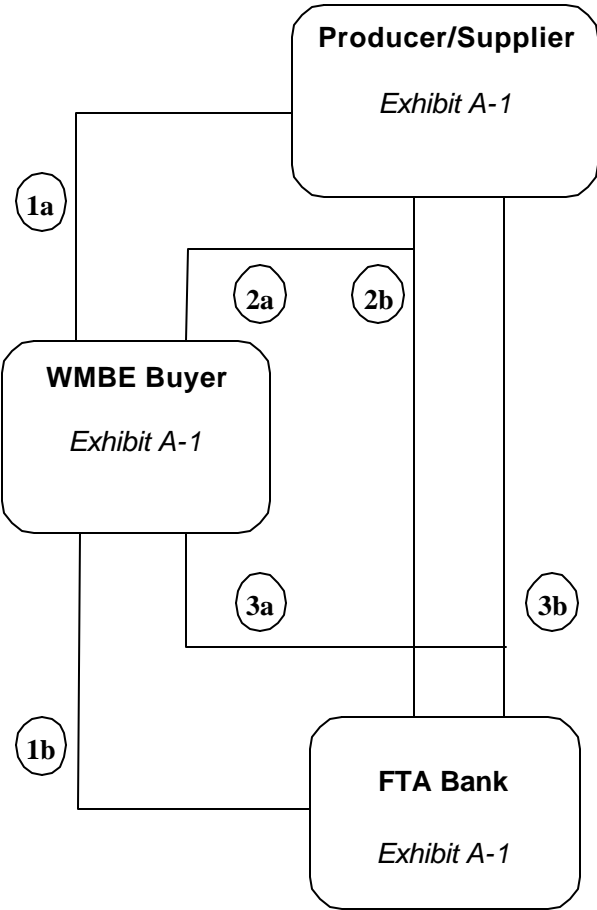
[Bank] _____
 Name: _____
 Title: _____
 Date: _____

**Diagram of
FAX Movement**

**NAESB Funds Transfer Agent
Agreement (Natural Gas)**

Participants:
Producer/Supplier, WMBE & FTA Bank

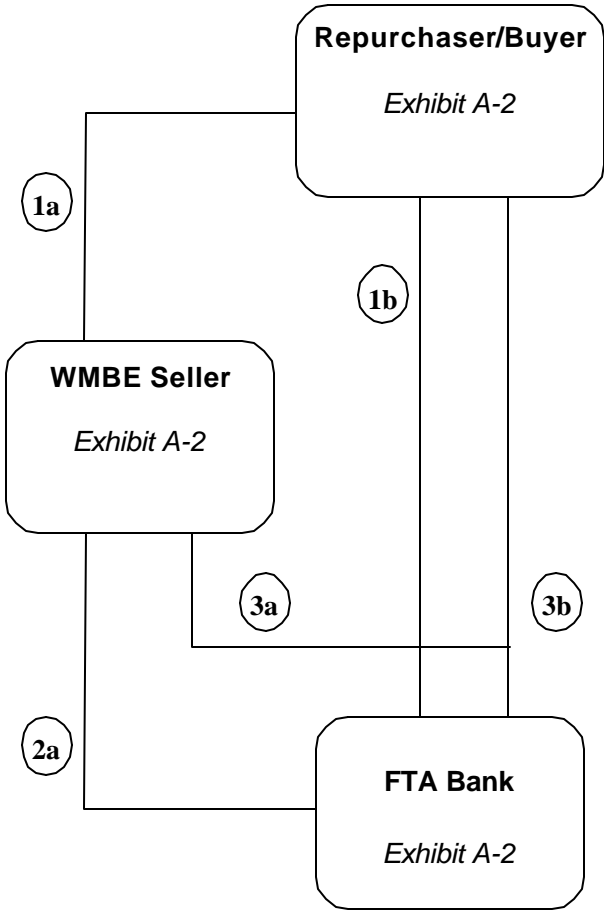
Agreement #1 & Exhibit A-1



**Special Provisions to the NAESB
Base Contract**

Participants:
Repurchaser/Buyer, WMBE & FTA Bank

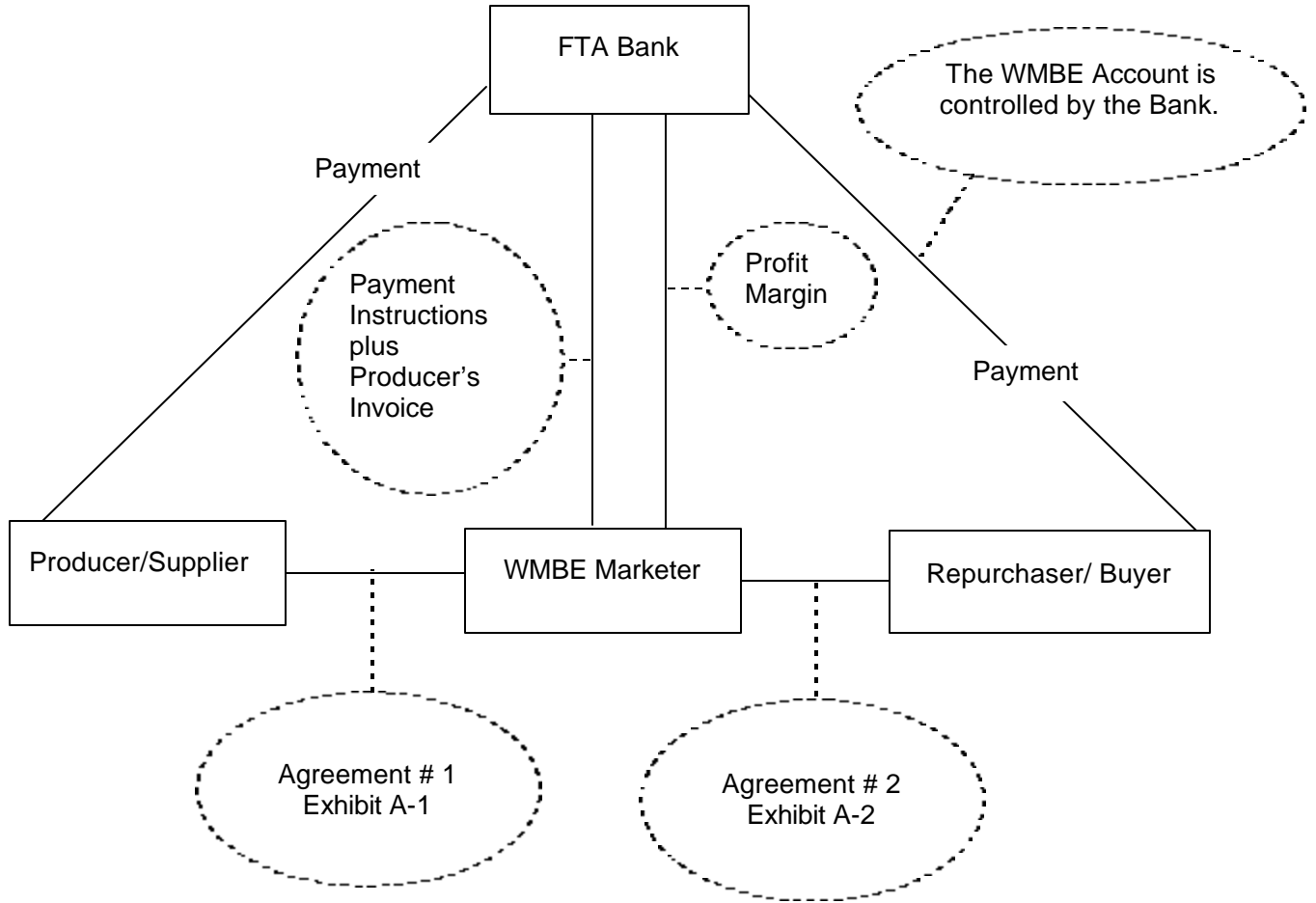
Agreement #2 & Exhibit A-2



FTAA Transaction Confirmation FAX Movement Instructions

Step	NAESB Funds Transfer Agent Agreement <i>Participants:</i> Producer/Supplier, WMBE & FTA Bank Agreement #1 & Exhibit A-1	Special Provisions to the NAESB Base Contract <i>Participants:</i> Repurchaser, WMBE & FTA Bank Agreement #2 & Exhibit A-2
1		1a and 1b : Repurchaser/Buyer faxes signed Exhibit A-2 to the WMBE Seller and the FTA Bank.
2		2a : The WMBE Seller signs Exhibit A-2, and faxes it to the FTA Bank.
3	1a and 1b : The WMBE Buyer faxes signed Exhibit A-1 to the Producer/Supplier and the FTA Bank, utilizing the same Confirmation Number that appeared on the Exhibit A-2.	
4	2a and 2b : The Producer/Supplier signs the Exhibit A-2, and faxes it to the WMBE Buyer and the FTA Bank.	
5	<i>Now the Bank has received Exhibit A-1, which has been signed by the WMBE Buyer and the Producer/Supplier, and the Exhibit A-2, which has been signed by the WMBE Seller and the Repurchaser. The FTA Bank will verify that all items match, in accordance with "FTA Agreement Instructions," and that (5) A-2 price is greater than (5) A-1 price. Also, the FTA Bank will confirm that the Supplier is on the Repurchaser's Authorized Supplier List.</i>	
6		3a and 3b : The FTA Bank signs the lower portion of the Exhibit A-2, and faxes it to the WMBE Seller and the Repurchaser.
7	3a and 3b : The FTA Bank signs the lower portion of the Exhibit A-1, and faxes it to the WMBE Buyer and the Producer/Supplier.	

Flow of Funds of the FTAA





Frequently Asked Questions about the Funds Transfer Agent Agreement (FTAA)

How can I get a copy of the NAESB FTAA?

The agreement can be downloaded from the NAESB web site (www.naesb.org) or it can be ordered from the NAESB office (naesb@aol.com, 713-356-0060).

How do I know that the FTAA that someone sends me is the standard NAESB agreement?

There are several things you should check. Compare the agreement to the original you downloaded or received from NAESB. Make sure the date is the same, the watermark appears and that the copyright language is in place. Ask the company that forwarded the agreement to you.

What is the procedure for using the NAESB FTAA?

To assist with the use, preparation, and verification of this agreement, please read the attached instructions, "FTA Agreement Instructions". This document provides an explanation of the FTAA and sample Exhibits with instructional arrows.

Can I modify the FTAA?

This agreement is copyrighted and shall not be revised except through the use of an addendum to the agreement, which is executed by both parties.

Why is there a watermark?

The NAESB watermark is on your paper and electronic FTAA so that the party you are contracting with can know that it is a standard NAESB FTAA.

Why is the watermark not appearing on the agreement that I downloaded from NAESB?

In the conversion process for word processors, there are differing ways that watermarks are dealt with. You cannot successfully convert the WordPerfect version to Word and you cannot use the Word version in WordPerfect without losing the watermark. Make sure that you are reading the file you downloaded with the word processor for which it was formatted.

I just received the NAESB FTAA agreement from someone, and it does not have the NAESB watermark on it – why?

The company preparing the agreement may have had word processor problems that prevented them from printing the watermark. Ask the company that sent you the agreement why the watermark does not appear.



Frequently Asked Questions about the Funds Transfer Agent Agreement (FTAA)

How do I know that the agreement someone sends me has not been modified.

This agreement should not be modified except through the use of an addendum as indicated above. Compare the agreement to the original FTAA that you downloaded or that you received from NAESB, verify the date and copyright language. Ask the company that sent you the agreement if the FTAA is in its standard form.

Why are the pages printing differently than on the paper copy

Many word processors reformat documents according to the printer that is set as the default. When we created these documents we used a Hewlett Packard 5P printer. When you initiate this document in your word processor you may have to make some minor adjustments to the margins or font sizes to get the paging to stay the same. If you are using the Word version, do not adjust the top margin setting. The NAESB watermark, in Word, is contained in the header of the document. Any adjustment to the top margin may cause 'unpredictable results'. In Word, it is best to modify the right, left and bottom margins -or- make adjustments to the font sizes in the text.

**NORTH AMERICAN ENERGY STANDARDS BOARD
EXECUTIVE COMMITTEE MEETING MATERIALS
JUNE 13, 2002**

**Executive Committee June 13, 2002 Meeting
WGQ Notational Ballot**

Vote	Recommendation
------	----------------

<input type="checkbox"/>	Funds Transfer Agent Agreement
--------------------------	--------------------------------

Executive Committee Member's Signature:

Date:

***Please return this ballot to the NAESB Office (713) 356-0067
by End of Business June 12, 2002
if you are unable to attend the meeting.***

**NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE
MEETING – WHOLESALE GAS & RETAIL ELECTRIC QUADRANTS
Meeting Materials
June 13, 2002**

6. Title Transfer Tracking

- Attached please find an excerpt of FERC Order 587-O regarding title transfer tracking for discussion.

FERC Order Number 587-O, Part II Sec. B.-19, 20

B. Title Transfer Tracking Standards

19. To ensure consistent implementation, the Commission will provide its interpretation of the pipelines' responsibilities with respect to TTT. Title transfer, under the standards, is defined as "the change of title to gas between parties as a location."²⁴ Title Transfer Tracking (TTT) is defined as "the process of accounting for the progression of title changes from party to party that does not effect a physical transfer of the gas."²⁵ The two standards defining the pipelines' responsibility are Standards 1.3.64 and 1.3.65. In pertinent part, Standard 1.3.64 provides: "At a minimum, the Transportation Service Providers (TSP) should be responsible for accommodating Title Transfer Tracking (TTT) services at all points identified by the TSP as pooling points, where TTT services are requested." Standard 1.3.65 provides that "the Title Transfer Tracking services should be supported by means of the nominations, quick responses and scheduled quantities processes."

20. The Commission interprets these standards as requiring pipelines to permit and process, on a non-discriminatory basis, transportation nominations (along with required responsive scheduling information) effecting transfers of title at pooling points by any party including shippers, poolers, or third party account administrators.²⁶ As a simple example, Producer A aggregates 1000 Dth of gas from three receipt points at its pool at Pool 1, sells 1000 Dth to Marketer B at Marketer B's pool at Pool 1, and Marketer B

²⁴ Standard 1.2.14 (Version 1.5)

²⁵ Standard 1.2.15 (Version 1.5)

²⁶ A Third Party Account Administrator is defined as a Title Transfer Tracking Service Provider other than the Transportation Service Provider. Standard 1.2.17 (Version 1.5).

sells 1000 Dth to Shipper C at the pooling point for transportation to Shipper C's delivery point under Shipper C's firm transportation contract. Under the NAESB standards, the pipeline would have to process a transportation nomination from Producer A, including provision of the required scheduling responses, to reflect the transfer of gas from Producer A's pool to Marketer B's pool. Other than processing the transportation nomination to reflect the in-place transfer of gas, the pipeline would be required to provide no other "accounting services"²⁷ respecting the transfer of title.

²⁷ Standard 1.2.15 defines title transfer tracking as the "process of accounting for the progression of title changes from party to party."

**NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE
MEETING – WHOLESALE GAS & RETAIL ELECTRIC QUADRANTS
Meeting Materials
June 13, 2002**

7. REQ Quadrant Membership Report

- Attached please find the most recent membership report for the REQ.

**NORTH AMERICAN ENERGY STANDARDS BOARD
COMPANIES INTENDING JOINING QUADRANTS AND SENDING
LETTERS OF INTENT**

The quadrant procedures for both the retail electric (REQ) and retail gas quadrants (RGQ) were accepted by the NAESB Board on March 7, 2002. For the quadrants to become active, they must have a minimum of 40 members per quadrant, and a minimum of five members per segment. Once the membership threshold is met, the quadrants can seat their Board members and Executive Committee members. Both the REQ and the RGQ quadrants have four segments: distributors, suppliers, end users and services.

While the wholesale electric quadrant (WEQ) has not yet prepared its procedures, nor identified its segments, several companies have forwarded letters of intent, which are included in this report.

Retail Electric Quadrant Letters of Intent:

	Company	Segment Specified				
		Dist	Sup	End	Svc	None
1	8760 Inc.				Y	
2	Alabama Power Company	Y				
3	Alabama Power Company		Y			
4	Allegheny Power	Y				
5	Ameren Services Company	Y				
6	American Electric Power	Y				
7	American Public Power Association	Y				
8	Baltimore Gas & Electric Company	Y				
9	Calpine Energy Services, L.P.		Y			
10	Cinergy Services, Inc.	Y				
11	Consolidated Edison Co, of New York, Inc.	Y				
12	Consumers Energy Company	Y				
13	Defense Energy Support Center			Y		
14	Detroit Edison Company	Y				
15	Dominion Retail, Inc.		Y			
16	Dominion Virginia Power	Y				

**NORTH AMERICAN ENERGY STANDARDS BOARD
COMPANIES INTENDING JOINING QUADRANTS AND SENDING
LETTERS OF INTENT**

Retail Electric Quadrant Letters of Intent:

Company		Segment Specified				
		Dist	Sup	End	Svc	None
17	Duke Power Company	Y				
18	Dynegy		Y			
19	EC Power				Y	
20	Electric Reliability Council of Texas (ERCOT)				Y	
21	Electricity Consumers Resource Council (ELCON)			Y		
22	Entergy					Y
23	Exelon Energy Delivery	Y				
24	Georgia Power Company		Y			
25	Georgia Power Company	Y				
26	Green Mountain Energy Company		Y			
27	Gulf Power Company	Y				
28	MidAmerican Energy Company		Y			
29	Mississippi Power Company	Y				
30	National Grid USA	Y				
31	Office of Public Advocate, State of Maine			Y		
32	Ohio Consumers' Counsel			Y		
33	PanCanadian Energy Services Inc		Y			
34	PanCanadian MidStream Limited			Y		
35	Pennsylvania Office of Consumer Advocate			Y		
36	PPLSolutions, LLC				Y	
37	Public Service Electric & Gas Company	Y				
38	Reliant Energy Retail Services, LLC		Y			

**NORTH AMERICAN ENERGY STANDARDS BOARD
COMPANIES INTENDING JOINING QUADRANTS AND SENDING
LETTERS OF INTENT**

Retail Electric Quadrant Letters of Intent:

Company		Segment Specified				
		Dist	Sup	End	Svc	None
39	Savannah Electric and Power Company	Y				
40	SCT Global Energy, Utilities and Communications				Y	
41	SchlumbergerSema				Y	
42	Southern California Edison	Y				
43	Southern Company Services Inc.				Y	
44	Systrends Inc.				Y	
45	Telerox				Y	
46	The Boeing Company			Y		
47	The Structure Group				Y	
48	TXU Energy Retail		Y			
49	Wisconsin Electric -Wisconsin Gas	Y				
50	Wisconsin Public Service Corporation	Y				
TOTAL		22	10	7	10	1

Retail Gas Quadrant Letters of Intent:

Company		Segment Specified				
		Dist	Sup	End	Svc	None
1	AGL Resources Inc.	Y				
2	Amerada Hess Corporation		Y			
3	Baltimore Gas & Electric Company	Y				
4	Consolidated Edison Co, of New York, Inc.	Y				
5	Consumers Energy Company	Y				

**NORTH AMERICAN ENERGY STANDARDS BOARD
COMPANIES INTENDING JOINING QUADRANTS AND SENDING
LETTERS OF INTENT**

Retail Gas Quadrant Letters of Intent:

Company		Segment Specified				
		Dist	Sup	End	Svc	None
6	Dominion Delivery	Y				
7	Duke Energy Gas Transmission, LLP		Y			
8	Dynegy		Y			
9	KeySpan Energy Delivery	Y				
10	Michigan Consolidated Gas Company	Y				
11	National Fuel Gas Distribution Corporation	Y				
12	Niagara Mohawk	Y				
13	NiSource Energy Distribution Group	Y				
14	Office of Public Advocate, State of Maine			Y		
15	Ohio Consumers' Counsel			Y		
16	Orange and Rockland	Y				
17	PanCanadian Energy Services Inc.		Y			
18	PanCanadian MidStream Limited			Y		
19	Peco Energy Company	Y				
20	Pennsylvania Office of Consumer Advocate			Y		
21	Peoples Gas System	Y				
22	Public Service Electric & Gas Company	Y				
23	Questar Gas Company	Y				
24	The Boeing Company			Y		
25	TXU Energy Retail		Y			
26	Vectren Source					Y
27	Washington Gas Light Company	Y				

**NORTH AMERICAN ENERGY STANDARDS BOARD
COMPANIES INTENDING JOINING QUADRANTS AND SENDING
LETTERS OF INTENT**

Retail Gas Quadrant Letters of Intent:

Company		Segment Specified				
		Dist	Sup	End	Svc	None
28	Wisconsin Public Service Corporation	Y				
29	Wisconsin Electric Wisconsin Gas ¹	Y				
TOTAL		18	5	5	0	1

Wholesale Electric Quadrant Letters of Intent:

Company	Segment Specified
1 8760 Inc.	Services
2 Allegheny Energy Supply	Generation
3 Allegheny Energy Supply	Marketer/Broker
4 Allegheny Power	Transmission
5 Allegheny Power	Load Serving Entity
6 Calpine Corporation	None
7 Calpine Energy Services, L.P.	None
8 Cinergy	None
9 Conectiv Energy Supply, Inc.	Generation
10 Consolidated Edison Co, of New York, Inc.	None
11 Duke Energy North America	None
12 Dynegy	None
13 El Paso Corporation	Generation
14 El Paso Merchant Energy	Marketing
15 Electric Reliability Council of Texas (ERCOT)	Transmission

¹ Transferring membership from Wholesale Gas Quadrant of NAESB to Retail Gas Quadrant.

**NORTH AMERICAN ENERGY STANDARDS BOARD
COMPANIES INTENDING JOINING QUADRANTS AND SENDING
LETTERS OF INTENT**

Wholesale Electric Quadrant Letters of Intent:

	Company	Segment Specified
16	Electricity Consumers Resource Council (ELCON)	End User
17	Entergy Services, Inc.	Transmission
18	Exelon	None
19	IDACORP Energy	None
20	Michigan Public Power Agency	Distribution/LSE
21	Mirant Americas Energy Marketing, LP	None
22	PanCanadian	None
23	PG&E National Energy Group	None
24	Powerex	Marketing
25	PPL Electric Utilities Corporation	Transmission
26	PSEG Energy Resources and Trade LLC	Marketing
27	PSEG Power LLC	Generation
28	Public Service Electric and Gas Company	Distribution/LSE
29	Public Service Electric and Gas Company	Transmission
30	Reliant Energy HL&P	Transmission
31	Reliant Energy Services, Inc.	Marketing
32	Southern Company Services – Generation and Energy Marketing	Load Serving Entity
33	Southern Company Services – Generation and Energy Marketing	Generation
34	Southern Company Services – Generation and Energy Marketing	Marketing
35	Southern Company Services, Inc.	Transmission
36	The Boeing Company	End User

**NORTH AMERICAN ENERGY STANDARDS BOARD EXECUTIVE COMMITTEE
MEETING – WHOLESALE GAS & RETAIL ELECTRIC QUADRANTS
Meeting Materials
June 13, 2002**

8. REQ Annual Plan

- Attached please find the REQ annual plan to be forwarded to the board for its approval on June 28.

North American Energy Standards Board

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NORTH AMERICAN ENERGY STANDARDS BOARD 2002-2003 ANNUAL PLAN - RETAIL ELECTRIC QUADRANT¹

Item Number & Description	Completion ²	Assignment
Retail Access Uniform Business Practices (UBP)³		
1 Billing & Payments <i>Develop practices for billing customers and remitting payments to parties providing services to the customer.</i>	1 st Qtr 2003	Customer Processes Subcommittee
2 Creditworthiness Standards <i>Develop practices for extending commercial credit by Distributors to Suppliers to cover financial risk.</i>	1 st Qtr 2003	Supplier-Utility Interface Subcommittee
3 Customer Enrollment & Switching <i>Develop practices for Distributors to process customer switch requests from Suppliers, for maintaining current customer account information regarding a customer's Supplier, and for notifying affected parties.</i>	2 nd Qtr 2003	Customer Processes Subcommittee
4 Supplier Licensing <i>Develop practices for licensing Suppliers with state utility commissions.</i>	2 nd Qtr 2003	Supplier-Utility Interface Subcommittee
5 Retail Meter Data Validation, Editing & Estimating <i>Develop procedures for insuring the integrity and validity of retail customer metering data that is needed by utilities and suppliers for billing, load</i>	3 rd Qtr 2003	Supplier-Utility Interface Subcommittee

¹ As outlined in the NAESB Bylaws, the REQ will also address requests submitted by members and assigned to the REQ 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 so as 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 A "Glossary" exists from the November 2000 UBP document that should be maintained and updated as a common glossary for all items under this sub-heading as the sub-committees address the UBP items in this section of the Plan.

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Item Number & Description	Completion²	Assignment
<i>profiling, settlement, etc. Issues related to unbundled or competitive metering are not to be considered.</i>		
6 Customer Information <i>Develop practices for the release, collection, exchange & maintenance of customer information between Distributors and Suppliers.</i>	3 rd Qtr 2003	Customer Processes Subcommittee
7 Load Profiling <i>Develop practices for using statistical methods to estimate interval consumption by customers who do not have interval meters.</i>	3 rd Qtr 2003	Supplier-Utility Interface Subcommittee
8 Customer Inquiries <i>Develop procedures for responding to customer inquiries directed to Distributors and/or Suppliers and for notification of the other party.</i>	4 th Qtr 2003	Customer Processes Subcommittee
9 Market Participant Interactions <i>Develop supplier registration processes for Distributors and protocols for communications and interactions between Distributors and Suppliers .</i>	4 th Qtr 2003	Supplier-Utility Interface Subcommittee
10 Utility - Supplier Disputes <i>Develop dispute resolution procedures applicable to differences between Distributors and Suppliers.</i>	4 th Qtr 2003	Supplier-Utility Interface Subcommittee
11 Settlement Process <i>Reconcile energy schedules and energy delivered by suppliers within a given market. Note: will need to be coordinated with the WEQ.</i>	1 st Qtr 2004	Supplier-Utility Interface Subcommittee

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Data Exchange Protocols⁴

12	Electronic Delivery Mechanisms <i>Develop electronic delivery mechanism guidelines including but not limited to: transactional data interchange, web sites, and bulletin boards.</i>	4 th Qtr 2002	Technical Electronic Implementation
13	Technical Electronic Implementation Standards - Billing & Payments	2 nd Qtr 2003	Technical Electronic Implementation
14	Technical Electronic Implementation Standards - Customer Enrollment and Switching	3 rd Qtr 2003	Technical Electronic Implementation
15	Technical Electronic Implementation Standards - Metering	4 th Qtr 2003	Technical Electronic Implementation
16	Technical Electronic Implementation Standards - Load Profiling	Qtr 2003	Technical Electronic Implementation
17	Technical Electronic Implementation Standards - Customer Information	Qtr 2003	Technical Electronic Implementation

⁴ Data exchange standards for Uniform Business Practices should be completed by the end of the quarter following the quarter in which the Executive Committee adopts the model business practices for that area of focus.

Proposed Re-prioritization of REQ Annual Plan Items

6/4/02

Note: This document is for discussion purposes only, the formal REQ Annual Plan document will be revised with this information after adoption by the REQ.

Old Item #	New Item #	Item Description	Old Completion Date	Proposed Completion Date
1	1	Bill & Payments (CPS) ¹	4 th Qtr 2002	1 st Qtr 2003
5	2	Creditworthiness Standards (SUI) ²	2 nd Qtr 2003	1 st Qtr 2003
2	3	Customer Enrollment & Switching (CPS)	1 st Qtr 2003	2 nd Qtr 2003
7	4	Supplier Licensing (SUI)	3 rd Qtr 2003	2 nd Qtr 2003
3	5	Retail Meter Data Validation, Editing & Estimating (SUI)	1 st Qtr 2003	3 rd Qtr 2003
6	6	Customer Information (CPS)	3 rd Qtr 2003	3 rd Qtr 2003
8	7	Load Profiling (SUI)	Same	3 rd Qtr 2003
4	8	Customer Inquiries (CPS)	2 nd Qtr 2003	4 th Qtr 2003
9	9	Market Participant Interactions (SUI)	Same	4 th Qtr 2003
10	10	Utility-Supplier Disputes (SUI)	Same	4 th Qtr 2003
N/A	11	Settlement Process (SUI)	N/A	1 st Qtr 2004
11	12	Electronic Delivery Mechanisms (TEI) ³	4 th Qtr 2002	4 th Qtr 2002
12	13	Technical Electronic Implementation Standards - Billing & Payments (TEI)	1 st Qtr 2003	2 nd Qtr 2003
14	14	Technical Electronic Implementation Standards - Customer Enrollment and Switching (TEI)	2 nd Qtr 2003	3 rd Qtr 2003
13	15	Technical Electronic Implementation Standards - Metering (TEI)	2 nd Qtr 2003	4 th Qtr 2003
16	16	Technical Electronic Implementation Standards - Load Profiling (TEI)	4 th Qtr 2003	4 th Qtr 2003
15	17	Technical Electronic Implementation Standards - Customer Information (TEI)	4 th Qtr 2003	4 th Qtr 2003

¹ CPS - Customer Processes Subcommittee

² SUI - Supplier-Utility Interface Subcommittee

³ TEI - Technical Electronic Implementation Subcommittee

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Note Plan Item, completion date, and Comment #s synch up with a prior version of the REQ Annual Plan. A cheat sheet is attached for reference mapping the "old item number" to the "new item number."			
Plan Item: #1 Billing & Payments (<i>Develop practices for billing customers and remitting payments to parties providing services to the customer.</i>) - 4 th Qtr 2002, Customer Processes Subcommittee			
Comment Submitted By:	Comment #	Comment	Recommended Resolution
Rochester Gas & Electric Corp.	1a	Billing and Payment Processing and Customer Enrollment and Switching, both processes driven by EDI, should also be set aside. Implementation of EDI standards for these processes are underway in New York and they are expected to be in place in early 2003. Utilities and ESCOs/Marketers should not be required to make changes to procedures they have in place or are in the process of implementing.	Move all Customer Processes Subcommittee plan items out one quarter to accommodate extra time for reviewing processes already in place or under way. The new completion date for Plan Item #1 will be 1 st Qtr 2003. The Subcommittee strongly encourages interested parties like Rochester Gas & Electric and Central Main Power Company who have experience with these issues to participate in the appropriate subcommittees. This participation will allow all parties to benefit from the lessons learned in other states and regions. Although some participants in the Subcommittee have also already invested funds to meet local standards, these same participants are still interested in evaluating potentially more efficient and effective practices.
Defense Energy Support Center	1b	Suggestion made for setting up a way to allow one entity to bill Retail Energy Providers (REPs) that have nationwide customers; i.e. a billing service provider.	Forward to assigned subcommittee as option for plan item resolution
Central Maine Power Company	1c	Billing and Payment Processing and Customer Enrollment and Switching should also be set aside. Maine has implemented EDI standards for these processes. Utilities and ESCOs/CEPs/Marketers should not be required to make changes to procedures that they have in place.	See 1a
Dominion Retail, Inc.	1d	It should also be recognized that the issues listed as #8, #9, and #10 [as listed below] are, in	No change. (Comment is in agreement with current plan.)

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		<p>Dominion Retail's opinion, very significant issues for a marketer and will probably be controversial. We seriously hope that these particular issues are given the time and attention they deserve since they have been, in our opinion, some of the most serious barriers to retail market development in various states. Resolution of problems involved with these issues would greatly advance the cause of deregulated retail markets, both electric and gas. If issues were to be listed according to the importance to a marketer like Dominion Retail, they would be listed as the top priority to have the most positive impact on the retail markets.</p> <p>8) Customer Information 9) Billing & Payments 10) Customer Enrollment & Switching</p>	
<p>Plan Item: #2 Customer Enrollment & Switching (<i>Develop practices for Distributors to process customer switch requests from Suppliers, for maintaining current customer account information regarding a customer's Supplier, and for notifying affected parties.</i>) – 1st Qtr 2003, Customer Processes Subcommittee</p> <p><i>Note: This item completion date will be moved to 2nd Qtr 2003 in accordance with resolution 1a & 1c</i></p>			
Comment Submitted By:	Comment #	Comment	Recommended Resolution
TXU Energy	2a	Item #2 Customer Enrollment & Switching should be moved up to the 4th Quarter of 2002. This item really goes hand-in-hand with Item #1 Billing & Payments which is scheduled for completion in the 4th Quarter. Actually, if we don't have the customer switched there will be no one to send a bill to anyway.	No change - While the subcommittee agrees that this item is also very important, we also recognize that the subcommittee will have limited resources and can not complete both item #1 & item #2 simultaneously.
Defense Energy Support Center	2b	Suggestion to have 1 industry wide standard time frame for customers to switch, as it stands now some requirements dictate a few days while	Forward to assigned subcommittee as option for plan item resolution

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		others require up to 3 months.	
Dominion Retail, Inc.	2c	<p>It should also be recognized that the issues listed as #8, #9, and #10 [as listed below] are, in Dominion Retail's opinion, very significant issues for a marketer and will probably be controversial. We seriously hope that these particular issues are given the time and attention they deserve since they have been, in our opinion, some of the most serious barriers to retail market development in various states. Resolution of problems involved with these issues would greatly advance the cause of deregulated retail markets, both electric and gas. If issues were to be listed according to the importance to a marketer like Dominion Retail, they would be listed as the top priority to have the most positive impact on the retail markets.</p> <p>8) Customer Information 9) Billing & Payments 10) Customer Enrollment & Switching</p>	No change. (Comment is in agreement with current plan)
<p>Plan Item: #5 Credit Worthiness (<i>Develop practices for extending commercial credit by Distributors to Suppliers to cover financial risk.</i>) – 2nd Qtr 2003, Supplier-Utility Interface Subcommittee</p> <p><i>Note: This item completion date will be moved to 1st Qtr 2003 in accordance with resolution 5a & 5b.</i></p>			
Comment Submitted By:	Comment #	Comment	Recommended Resolution
Rochester Gas & Electric Corp.	5a	<p>ESCO Creditworthiness and Supplier Licensing should be the first items addressed in the REQ Annual Plan. New York utilities have been already been affected by several ESCO/Marketer bankruptcies since the introduction of retail access. With the marked increase in bankruptcies and a down-turned economy, adequate standards</p>	Recommend moving up priority on this item ahead of metering (item #3).

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		must be put in place. In reviewing Creditworthiness and Supplier Licensing standards, the REQ should consider the policies and procedures already established in several states. Additionally, the REQ should consider the level of involvement that state Commissions have in determining creditworthiness standards.	
Central Maine Power Company	5b	ESCO/Competitive Energy Providers (CEP) Creditworthiness and Supplier Licensing standards were developed and implemented by the Maine Public Utilities Commission (MPUC) prior to March 1 st , 2000- first day of retail competition in Maine. Central Maine Power Company (CMP) agrees that the REQ should review Creditworthiness policies and procedures already established in several states including Maine. CMP supports the creditworthiness and Supplier licensing standards designed and currently managed by the MPUC. CMP deals with a counterparty's creditworthiness only when negotiating a wholesale supply contract.	Recommend moving up priority on this item ahead of metering (item #3).
<p>Plan Item: #6 Customer Information (<i>Develop practices for the release, collection, exchange & maintenance of customer information between Distributors and Suppliers.</i>) – 3rd Qtr 2003, Customer Processes Subcommittee</p> <p><i>Note: This item completion date will be moved to 4th Qtr 2003 in accordance with resolution 1a & 1c.</i></p>			
Comment Submitted By:	Comment #	Comment	Recommended Resolution
Pennsylvania PUC	6a	The Commission also suggests that item 6 (Customer Information) is one item where policy makers and state laws will interact and govern what is to be released and that the subcommittee needs to focus on how to organize the information so as to permit its routine sharing and updating.	Forward to assigned subcommittee as option for plan item resolution
Dominion Retail, Inc.	6b	It should also be recognized that the issues listed	Recommend swapping priority of Customer Inquiry

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		<p>as #8, #9, and #10 [as listed below] are, in Dominion Retail's opinion, very significant issues for a marketer and will probably be controversial. We seriously hope that these particular issues are given the time and attention they deserve since they have been, in our opinion, some of the most serious barriers to retail market development in various states. Resolution of problems involved with these issues would greatly advance the cause of deregulated retail markets, both electric and gas. If issues were to be listed according to the importance to a marketer like Dominion Retail, they would be listed as the top priority to have the most positive impact on the retail markets.</p> <p>8) Customer Information 9) Billing & Payments 10) Customer Enrollment & Switching</p>	<p>and Customer Information.</p>
<p>Plan Item: #7 Supplier Licensing (<i>Develop practices for licensing Suppliers with state utility commissions.</i>) – 3rd Qtr 2003, Supplier-Utility Interface Subcommittee</p> <p><i>Note: This item completion date will be moved to 2nd Qtr 2003 in accordance with resolution 7a.</i></p>			
Comment Submitted By:	Comment #	Comment	Recommended Resolution
Pennsylvania PUC	7a	<p>The Commission suggests that item 7 (Supplier Licensing) be separated into two items. Practices for licensing Suppliers with State Commissions should stand-alone and could be delayed to the 2003 4th quarter. Practices for registering Suppliers with distributors should be combined with item 5 (creditworthiness standards) and still target 2003 2nd quarter. The first part is within the purview of state laws as to the registry of</p>	<p>Recommend revision of wording – eliminated “and for registering suppliers and distributors.” Also recommend moving up priority on this item ahead of metering (item #3) to 2nd Qtr 2003.</p>

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		companies and may not lend itself to a model business practice. The second part is critical for the interface and establishing the relationships between the two parties. Creditworthiness is only one aspect of the relationship that should also include testing of systems for information transfer capability and emergency coordination.	
Plan Item: #11 Electronic Delivery Mechanism - 4 th Qtr 2002, Technical Electronic Implementation Subcommittee			
Comment Submitted By:	Comment #	Comment	Recommended Resolution
Encana	11a	EnCana believes that the category under Electronic Delivery Mechanism (REQ Annual Plan item number 11 under Data Exchange Protocols) includes the following: Development of a standard "Look and Feel" for delivery service provider's Internet Bulletin Board posting of information related to delivery services for customers and suppliers in competitive retail markets. For example, revise the latest version of the NAESB EDM manual to incorporate electric and gas utilities as delivery service providers in addition to the existing interstate natural gas pipelines. See specifically: the latest version of the EDM Manual Tab 7, "Technical Implementation - Informational Postings Web Site (IP/EDM)" and "APPENDIX D - Minimum and Suggested Technical Characteristics and Guidelines for the Developer and User of the Informational Postings Web Site."	Forward to assigned subcommittee as option for plan item resolution
EEl	11b	Item # 11 needs a little more explanation. Is this about data formats and communications protocols for sharing metered consumption data with	Clarify wording on annual plan to read: Develop electronic delivery mechanism guidelines including but not limited to: transactional data

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		<p>suppliers? (With customers?)</p> <p>I think it is unrealistic to expect that data exchange standards for Uniform Business Practices can be completed by the end of the quarter following the quarter in which the Executive Committee adopts the applicable model business practices. To the extent the model practices are changed from what's in the UBP final report, additional time may be needed.</p>	interchange, web sites, and bulletin boards."
Rochester Gas & Electric Corp.	11c	<p>EDI has already been addressed by several states and is underway in many more. Standardizing interchange can be a very expensive and time-consuming endeavor for both utilities and ESCOs, especially in states where they have already been directed to implement specific standards set forth by their Commissions. The New York utilities are in the process of implementing EDI based on a schedule established by the NYS PSC. While EDI is an important process, work should be deferred indefinitely while individual states' implementation efforts are underway. New and changing EDI requirements could hinder retail access; while utilities are required to be EDI compliant, ESCO/Marketers could opt not to participate if it requires extensive and costly changes.</p>	<p>The Subcommittee strongly encourages interested parties like Rochester Gas & Electric and Central Main Power Company who have experience with these issues to participate in the appropriate subcommittees. This participation will allow all parties to benefit from the lessons learned in other states and regions. Although some participants in the Subcommittee have also already invested funds to meet local standards, these same participants are still interested in evaluating potentially more efficient and effective practices.</p>
Pennsylvania PUC	11d	<p>It is also critical that the Technical Electronic Implementation subcommittee build off of the work that has been done by the wholesale gas quadrant on electronic transfer standards and security. The Pennsylvania Commission has adopted the "GISB internet standard" for</p>	<p>Forward to assigned subcommittee as option for plan item resolution</p>

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		<p>inclusion in its supplier/distributor interaction protocols. We also offer the First Regional Electronic Data Interchange (FREDI) standards for their consideration and reference. Many of items 11 through 16, which are designated for the Technical Electronic Implementation subcommittee, have been addressed by Pennsylvania's Electric Data Exchange Working Group (EDEWG) and are available at the Commission's Website puc.paonline.com/electric/EDI/edewg_download.aspx.</p>	
Central Maine Power Company	11e	<p>EDI /EBT should be set aside- Standardizing interchange is very expensive and time consuming. The Maine Electronic Business Transaction working group is a partnership among T&D's , Competitive Electricity Providers, the MPUC and other interested parties, established for the purpose of developing detailed business processes and defining Electronic transactions to support retail choice. EDI is working well between Maine utilities and active CEP's. The Maine EBT transactions have been designed to meet the needs of Maine , considering regional standards and UIG 4010 standards. Maine is ANSI x.12 compliant. Maine utilities require CEP's attend Supplier Training, require EDI test certification (ability to send and receive EDI txns) prior to a CEP enrolling an account, etc... A very high percentage of suppliers in Maine contract with experienced EDI vendors to transmit, read and reconcile the CEP's EDI /EBT data. CMP is also an active participant at UIG (Utility Industry</p>	See 11c

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		Group). Maine Utilities try to be proactive and discuss the “what if” and “how many programming hrs” and “what does it cost” if the Utilities had to make system changes that CEP’s are requesting . Also, the Maine EBT working group meets quarterly to discuss any regional issues, requests from participating CEP’s, regulatory issues from the MPUC and internal business processes / EDI transactions.	
General Comments			
Comment Submitted By:	Comment #	Comment	Recommended Resolution
Encana	Ga	All categories of the REQ Annual Plan with similar categories in the RGQ Annual Plan should be combined into a single REQ/RGQ Annual Plan. Requests for standard/commercial business practice submitted under the REQ Annual Plan categories will be subject to Triage Subcommittee review. It is expected that if a request for standard/commercial business practice falls within both REQ and RGQ Annual Plan categories that the Triage Subcommittee will recommend joint REQ/RGQ development of the standard/commercial business practice.	The Subcommittee agrees that the REQ and RGQ annual plans should be closely coordinated. However, since the REQ will be up and running in time for the June EC and Board meetings and the RGQ will not be and since the REQ is much further along in the annual plan process, the subcommittee recommends we move ahead with the REQ annual plan communicating regularly with RGQ members to facilitate coordination.
MidAmerican Energy	Gb	Added Transmission Requests and Tariffs Develop requirements and practices for making transmission requests. Develop practices and protocols for scheduling, measuring imbalance bandwidths and determining charges and penalties. [Note: Such requirements and practices require coordination with the Wholesale Electric Quadrant]	Add this item as the new number 11 titled “Settlement Process” scheduled for completion 4 th Qtr 2003- see red lined annual plan Draft F.
Pennsylvania PUC	Gc	Separate supplier licensing with a state from	See recommendations for other PA PUC comments

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		<p>supplier registering with a distributor. The former may be controlled by state laws and regulations, which may be barrier to standards adoption. However the latter is extremely important and sets the stage for creditworthiness, day to day relations, and systems interaction. These items are more critical to market entry without undue barriers. So for the purpose of the survey I would separate the two items. As I was responding to the gas survey I found our position had very different priorities for these two items.</p> <p>The Commission welcomes the future work of the REQ and will give due consideration to its proposals in order to enhance the Electric Choice program in Pennsylvania. Correspondence regarding these comments can be directed to Robert A. Rosenthal, Director – Bureau of Fixed Utility Services, 717-783-5242 or email at rrosenthal@state.pa.us</p>	
Dominion Retail, Inc.	Gd	<p>The priority of Retail Access Uniform Business Practices illustrated in your e-mail of 5-13-02 appears confusing. I have listened to a recent conference call and it appears there may be some misunderstanding of the retail business. For example, Billing & Payments is listed #1 because, according to some participants on the conference call, this item should be quick and easy to resolve. In the experience of Dominion Retail who has</p>	<p>Recommend swapping priority of Customer Inquiry and Customer Information. The Subcommittee also would like to note that although it has been acknowledged that quick wins are important, the general consensus of the REQ participants has been that items that are of greatest importance should be prioritized first even though they may take longer to resolve.</p>

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	<p>participated in several work groups in states adopting retail standards, it is highly unlikely this item will be resolved very quickly. Some work groups spend several months debating the issues and still don't reach a consensus opinion. Likewise for item #2 (Customer Enrollment & Switching).</p> <p>Instead, I would like to offer the following priority list in order of my perception of ease, working on up to the most difficult issues. The lower- ranked items (higher number) are not listed for their lesser importance (because they are in fact probably the most difficult and time-consuming to resolve), but just because they may take longer to discuss, if indeed the group wants to save the toughest issues for last. Indeed, the risk of first addressing Billing & Payments and secondly, Customer Enrollment & Switching, is that the group could well get bogged down in these issues and fall way behind the scheduled work plan.</p> <ol style="list-style-type: none">1) Supplier Licensing (should not be too controversial)2) Utility-Supplier Disputes3) Market Participant Interactions4) Customer Inquiries5) Creditworthiness Standards6) Retail Meter Data Validation7) Load Profiling8) Customer Information9) Billing & Payments10) Customer Enrollment & Switching	
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