



UGI Utilities, Inc. – EDI/NAESB Test Plan (Including Penn Natural Gas)

Electric & Gas Divisions Version 1.0

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Preface

UGI Utilities, Inc. (UGI) is a natural gas and electric utility which serves over 320,000 customers in 17 counties throughout Pennsylvania. Most of UGI's residential, commercial and industrial customers are eligible to participate in Pennsylvania's Gas and Electric Customer Choice Programs. As a regulated distribution company UGI adheres to the processes and standards that were developed by the Pennsylvania Electronic Data Exchange Working Group (EDEWG) for exchanging customer information with energy suppliers participating in Pennsylvania's choice programs. As a result, UGI is required to conduct Electronic Data Interchange (EDI) certification testing with gas and electric suppliers to determine compliance with the PA EDI Standards, prior to their production implementation in the UGI service territories. For testing purposes, UGI adheres to the basic EDI testing requirements and protocols developed by EDEWG and laid out in the EDEWG EDI Test Plan. The UGI Test Plan (Plan) is a modified version of the EDEWG Plan that reflects the testing requirements and scenarios that are applicable in UGI's service territories.

Certification Testing

There are two levels of certification required by the Pennsylvania Public Utility Commission (PUC) prior to production implementation.

- Level 1, involves the submission of a set of sample EDI transactions to the Public Utility Commission (PUC) for review and approval. Information on the Level 1 process and requirements can be found at "<http://choice.intellimarkpa.com/level1.htm>".
- Level 2, involves testing a "core" set of EDI transactions that will verify the basic abilities of both the utility and the supplier to trade EDI information. In addition, since the NAESB Electronic Delivery Mechanism (EDM) is now the Pennsylvania standard for transporting EDI data, Level 2 testing will be conducted utilizing the Internet EDM and will incorporate the required NAESB certification tests. Successful completion of the Level 2 tests will allow for submission of production data.

Both the Level 1 and Level 2 tests are required for all suppliers prior to production implementation with UGI.

Testing Requirements

In order to insure an efficient and successful testing process, it is essential that communications between both parties occur before, during and after testing. UGI will work with suppliers to identify and resolve EDI/NAESB related issues as they occur.

UGI's Gas and Electric Divisions share a common Customer Information and EDI system. However, due to slight variations between the gas and electric EDI standards and requirements, suppliers may need to test with both or either depending on the nature of their businesses. Each supplier must complete or provide the following items prior to beginning the testing process with the respective Division:

Electric Division

- Evidence that the supplier is licensed by the PUC;
- A fully executed Individual Coordination Agreement;
- Written evidence that the Supplier is a signatory to the PJM Operating Agreement and Reliability Agreement;
- A signed Confidentiality Agreement;
- An EDI Trading Partner Agreement

Gas Division

- Evidence that the supplier is licensed by the PUC;
- Supplier Application (including \$500 application fee);
- Rate AG Agreement;
- An EDI Trading Partner Agreement;
- Must fulfill Bonding Requirements

Information on the above requirements can be obtained from the UGI Web site (Utilities [Electric](#), Utilities [Gas](#), Penn Natural Gas) or from the following business contacts:

UGI EDI Electric Division: edi-electric@ugi.com

UGI EDI Gas Division (including Penn Natural Gas): edi-gas@ugi.com

Supplier Test Requirements

- Level 1 certification;
- Provide trading partner information to UGI at least 2 weeks prior to the start of testing;
- Provide a contact and an SMTP address to which manual and automated protocol and exchange failure messages are sent;
- Test scenarios for each billing method to be offered;
- Participate in daily testing meetings held by the UGI (if needed).
- Send transactions according to schedule;
- Notify UGI via E-mail, when transactions are sent or received. UGI will do the same;
- Notify UGI of any major changes to EDI-related production systems;
- Notify UGI of Certification and copy Certification E-mail to the PUC.

Overview of Testing Process

UGI will conduct EDI testing with suppliers on an as needed basis as long as resources are available. Prior to requesting a test date, suppliers should review UGI's test information and FAQ. Testing requests should be made to UGI at least 30 days prior to the desired test date.

1. Depending on the number of requests UGI will schedule and organize the requestors into one or more test batches.
2. UGI will notify suppliers of their respective test date and provide any additional information that may be required for testing including test account numbers.
3. Prior to testing, UGI will conduct a pre-test conference call (if warranted based on the number of suppliers) to discuss testing issues. The discussion should include identification by each party of exceptions to testing, test schedule, FAQ and any other pertinent issues.

4. A connectivity test will be performed prior to sending any test data to insure that the EDI and NAESB set-ups are correct and functioning properly between trading partners.
5. Once testing begins, suppliers will move together through a series of test frames. Each frame represents an activity that must be completed by either the supplier or UGI. A frame typically ends with a set of transactions being sent to the other trading partner and a frame will typically take one to two days to complete. Any suppliers that cannot 'keep-up' with the schedule may be moved to the next 'batch'.
6. Once the supplier has completed the required frames within each level they will have met the Level 2 or Level 3 certification requirements.
7. Each trading partner will send a formal notice via e-mail to the trading partner when either Level 2 and/or Internet EDI capability has been certified, and will copy edewg@puc.paonline.com

Since NAESB is now the accepted method for transmitting EDI data, the primary certification tests for the NAESB process will occur in as part of the normal Level 2 testing process. However, the error tests as well as the fail-over process test will take place upon conclusion of the standard Level 2 EDI test scenarios.

For stand-alone NAESB EDM testing, each trading partner will identify which files will be/were captured for testing purposes. Each party will modify their production file by changing the ISA information to indicate that this is a test file, including the sender and receiver information, and the ISA13 production/test flag. Each party will indicate how the file will be modified in the initial kickoff meeting and the testing profile.

- Each party will send these files to the other party through Internet EDI, and notify the testing contact of the trading party that the files were sent.
- Each trading partner should run these files through their translator to confirm that the files were not corrupted. The files may be processed further, however this is not required
- Each trading partner will simulate a protocol or exchange failure, triggering the appropriate automated notices to the identified trading partner contacts.
- Each trading partner will simulate an encryption/decryption failure, triggering the appropriate automated and manual notices to the identified trading partner contacts.

NAESB Fail-over process

The process for handling exchange failures (as defined by the EDEWG Internet EDI Plan) will depend on arrangements/agreements made between both parties prior to commencing production data transmission. UGI is currently not supporting automatic fail-over to a VAN, however we will manually switch to the VAN provided the trading partner has agreed to this process. The alternative is for UGI to hold any transactions that have failed to be sent until the problem(s) can be resolved. UGI supports the concept of the automatic fail-over and is working to implement this process.

NAESB Manual Fail-over Process:

Once an exchange failure has occurred, UGI will notify the trading partner contact and manually re-route the EDI X12 document to the VAN. This will occur within 1 hour of the exchange failure. The trading partner will remain on the VAN until the problem is resolved and notifications are exchanged between contacts.

Test Plan Components

Abbreviated Testing

If a new supplier is utilizing the same back-end application system and EDI maps as another already tested supplier/service bureau, UGI may waive the normal Level 2 test requirements in favor of an abbreviated test or a simple connectivity test. In this instance UGI will make every effort to complete these tests as soon as possible.

Frames (See Page 17)

Each frame represents activity that must be completed by a trading partner. Each frame typically ends with a set of transactions being sent to the other trading partner.

For example, Frame 3 has the supplier generating changes and drops to send to the Utility, and the Utility generating drops, changes, usage, and Rate Ready invoices to send to the Supplier.

Term 'Frame' was chosen to eliminate 'day', 'month' confusion. Some frames (e.g. 814) are a production day; other frames (e.g. 867/810) are a production month. Frames in testing should take 1 to 2 days.

Transactions to be tested:

Transaction	Utility	Supplier
814 Enrollment Request – The billing test plan requires these transactions to start the testing cycle		X
814 Enrollment Response	X	
814 Change Request	X	X
814 Change Response	X	X
814 Drop Request	X	X
814 Drop Response	X	X
814 Reinstatement Request	X	
814 Reinstatement Response		X
814 Historical Usage Request		X
814 Historical Usage Response	X	
568 Collection	X	
850 DDR Daily Delivery Requirement – Gas Specific	X	
867 Historical Usage	X	
867 Monthly Usage	X	
810 Rate Ready Utility Consolidated	X	
820 Payment Remittance	X	
824 Application Advice		X

Test Plan Scenarios

The next section of the Test Plan describes test plan scenarios and test scripts to be performed. It is organized by the component being tested. Much of the following information is taken directly from the EDEWG Test Plan and modified to reflect UGI's operating conditions. Since the UGI Test Plan covers both gas and electric, differences between the testing requirements will be noted where applicable.

The 10 test account numbers will be provided 1 week prior to the start of testing.

Summary Table of Test Scenarios

Scenario	Account #	Bill Type	Meter Type	
			Electric	Gas
C.501: Internet: Connectivity Test	N/A	ANY	SINGLE	SINGLE
E.001: Failed Enrollment	1	ANY	SINGLE	SINGLE
E.002: Historical Usage + Change by Supplier	2	ANY	SINGLE	SINGLE
E.003: Change by Utility	3	ANY	SINGLE	SINGLE
E.004: Drop by Supplier	4	ANY	SINGLE	SINGLE
E.005: Drop by Utility + Utility Reinstatement	5	ANY	SINGLE	SINGLE
B.101: Dual Billing: Usage, Cancel/Restate	6	DUAL	SINGLE	MULTIPLE
B.104: Dual Billing: Time-of-Day Meter	7	DUAL	TIME-OF-DAY	TEST NOT APPLICABLE
B.201: Rate Ready: Remittance, Prev/Curr Balance, Taxes	8	RATE READY	SINGLE	SINGLE
B.202: Rate Ready: Demand and Consumption	9	RATE READY	SINGLE KWH+KW	SINGLE
B.204: Rate Ready: Cancel/Restate	10	RATE READY	SINGLE	SINGLE
G.600: 850 DDR Test	N/A	N/A	TEST NOT APPLICABLE	N/A

Enrollment and Billing Test Plan Scenarios

Internet Connectivity Scenario

C.501: Internet: Connectivity Test						
Test the ability to send a file via the Internet standard protocol.						
Account #: Arbitrary File						
	Frame	Resp	Trans	Description	Expected Result	Actual Result
C.501	F1	Utility	Any	Utility sends any type of X12 file to the Supplier to test connectivity. File should have correct header information for the Supplier	X12 file sent to Supplier	
	F2	Supplier	997	Supplier responds with a 997 FA to complete connectivity test	997 sent to Utility	

Enrollment Level 2 Scenarios

E.001: Failed Enrollment						
Test an enrollment where the account number on the 814e can not be found in Utility's customer database as a valid account number. This enrollment request must be rejected.						
Account #: 1						
	Frame	Resp	Trans	Description	Expected Result	Actual Result
E.001	F1	Supplier	814e	Enrollment: Create and send enrollment request with an account number that does not exist in Utility's customer database	814e created and sent to Utility	
	F2	Utility	814er	Enrollment Response: Utility will send back a response rejecting the enrollment due to an invalid account number	REF02 = A76 (Reject Reason Code), REF03 = Account Not Found	

E.002: Historical Usage + Change by Supplier

Test an enrollment with a request for the Utility to send to the supplier, historical usage information. The Utility replies with an enrollment response, 814er, accepting the enrollment, along with historical usage information, 867hu. The Supplier will send a Change Request, the Utility will send the Change Response.

Account #: 2

E.002	Frame	Resp	Trans	Description	Expected Result	Actual Result
	F1	Supplier	814e	Enrollment: Create and send enrollment request with account having single meter	814e created and sent to Utility	
	F1	Supplier	814e or 814h	Hist Usage Request: On enrollment, 814e, request historical usage OR send separate 814H request for historical usageE.0	Historical Usage requested	
	F2	Utility	814er	Enrollment Response: Utility will send back response accepting the enrollment request.	814er created and sent to Supplier	
	F2	Utility	814er or 814hr	Hist Usage Response: Utility will send back response accepting the historical usage request.	On the 814er, verify 'ok' to receive historical usage information	
	F2	Utility	867hu	Hist Usage: Utility send 12 month historical usage information to Supplier	867hu created and sent to Supplier	
	F3	Supplier	814c	Change from Supplier: Supplier will request a change (any change)	Any valid REF*TD change	
F4	Utility	814cr	Change Response from Utility: Utility will reject or accept the change	Change accepted or rejected		

E.003: Change by Utility

Test any valid Utility change, and the Supplier will reply with a Change Response.

Account #: 3

E.003	Frame	Resp	Trans	Description	Expected Result	Actual Result
	F1	Supplier	814e	Enrollment: Create and send enrollment request.	814e created and sent to Utility	
	F2	Utility	814er	Enrollment Response: Utility will send back response accepting the enrollment request.	814er created and sent to Supplier	
	F3	Utility	814c	Change from Utility: Utility will send a change	Any valid REF*TD change	
F4	Supplier	814cr	Change Response from Supplier: Supplier will accept a change	Change accepted		

E.004: Drop by Supplier

Test a request to drop the customer, 814d, from the Supplier, then the Utility replies with a drop response, 814dr, accepting the drop.

Account #: 4

E.004	Frame	Resp	Trans	Description	Expected Result	Actual Result
	F1	Supplier	814e	Enrollment: Create and send enrollment request.	814e created and sent to Utility	
	F2	Utility	814er	Enrollment Response: Utility will send back response accepting the enrollment request.	814er created and sent to Supplier	
	F3	Supplier	814d	Drop from Supplier: Supplier requests to drop the customer	REF02 = B38 (Dropped by customer request)	
	F4	Utility	814dr	Drop from Supplier Response: Utility sends response accepting drop	Ex: ASI = ASI*WQ*024	

E.005: Drop by Utility + Utility Reinstatement

Test a request to drop the customer, 814d, from the Utility, then the Supplier replies with a drop response, 814dr, acknowledging the drop. The customer recinds the drop and the Utility sends an 814r to the Supplier. The Supplier replies with a response acknowledging reinstatement, 814rr.

Account #: 5

E.005	Frame	Resp	Trans	Description	Expected Result	Actual Result
	F1	Supplier	814e	Enrollment: Create and send enrollment request with single meter.	814e created and sent to Utility	
	F2	Utility	814er	Enrollment Response: Utility will send back response accepting the enrollment request.	814er created and sent to Supplier	
	F3	Utility	814d	Drop from Utility: Utility requests to drop the customer	Ex: REF02 = B38 (Dropped by customer request)	
	F4	Supplier	814dr	Drop from Utility Response: Supplier sends response accepting drop	Ex: ASI = ASI*WQ*024	
	F5	Utility	814r	Reinstatement: Utility sends requests to reinstate the customer	Ex: ASI = ASI*7*025	
	F6	Supplier	814rr	Reinstatement Response: Supplier sends response accepting reinstatement	Ex: ASI = ASI*WQ*025	

Dual Billing Level 2 Scenarios

B.101: Dual Billing: Usage, Cancel/Restate

Test Dual Billing usage plus cancel and restating usage. The Supplier sends an enrollment request, 814e, for a customer. The Utility replies with an enrollment response ,814er accepting the enrollment. Include cancelled and restated usage.

Account #: 6

B.101	Frame	Resp	Trans	Description	Expected Result	Actual Result
	F1	Supplier	814e	Enrollment: Create and send enrollment request with account having multiple meters. Request dual billing.	814e created and sent to Utility	
	F2	Utility	814er	Enrollment Response	814er created and sent to Supplier	
	F3	Utility	867mu	Usage/Monthly: Utility will send first month usage	867mu created and sent to Supplier	
	F5	Utility	867mu	Usage/Monthly: Utility will cancel first month usage	867mu created and sent to Supplier	
	F5	Utility	867mu	Usage/Monthly: Utility will restate first month usage	867mu created and sent to Supplier	
	F5	Utility	867mu	Usage/Monthly: Utility will send second month usage w/ bad account number	867mu created and sent to Supplier	
	F6	Supplier	824	?? bad account number	824 created and sent to Supplier	

B.104: Dual Billing: Time-of-Day Meter – Not required for Gas

Test time of day meters.

Account #: 7

B.104	Frame	Resp	Trans	Description	Expected Result	Actual Result
	F1	Supplier	814e	Enrollment: Create and send enrollment request with account having a time of day meter.	814e created and sent to Utility	
	F2	Utility	814er	Enrollment Response: Utility will send back response accepting the enrollment request.	814er created and sent to Supplier; On/Off/Intermediate meters	
F3	Utility	867mu	Usage/Monthly: Utility will send first month usage	867mu with On, off, and/or Intermediate peak consumption recorded.		

Rate Ready Billing Level 2 Scenarios

B.201: Rate Ready: Remittance, Prev/Curr Balance, Taxes

Test multiple meters, Usage, Invoices, and Remittance Test having previous and current balance, taxes, usage. Does NOT include ACH payment test.

Account #: 8

	Frame	Resp	Trans	Description	Expected Result	Actual Result
B.201	F1	Supplier	814e	Enrollment: Create and send enrollment request.	814e created and sent to Utility	
	F2	Utility	814er	Enrollment Response: Utility will send back response accepting the enrollment request.	814er created and sent to Supplier	
	F3	Utility	867mu	Usage/Monthly: Utility will send first month usage	867mu created and sent to Supplier	
	F3	Utility	810	Invoice: Utility will send first month invoice	810 created and sent to Supplier	
	F4	Utility	568	Customer makes payment. Utility sends 568 Collections	568 created and sent to Supplier	
	F4	Utility	820	Remittance: Utility will send first month remittance detail. ACH payment will NOT be tested; only remittance detail	820 created and sent to Supplier	

B.202: Rate Ready: Demand and Consumption

Test both demand and consumption (Electric - KW & KWH, Gas - HH Only).

Account #: 9

	Frame	Resp	Trans	Description	Expected Result	Actual Result
B.202	F1	Supplier	814e	Enrollment: Create and send enrollment request with a meter that measures both demand and consumption.	814e created and sent to Utility	
	F2	Utility	814er	Enrollment Response: Utility will send back response accepting the enrollment request.	814er created and sent to Supplier	
	F3	Utility	867mu	Usage/Monthly: Utility will send first month usage	867mu created and sent to Supplier	
	F3	Utility	810	Invoice: Utility will send first month invoice	810 created and sent to Supplier	

B.204: Rate Ready: Cancel/Restate

Test where usage and invoice had to be cancelled and restated.

Account #: 10

B.204	Frame	Resp	Trans	Description	Expected Result	Actual Result
	F1	Supplier	814e	Enrollment: Create and send enrollment request with single meter	814e created and sent to Utility	
	F2	Utility	814er	Enrollment Response: Utility will send back response accepting the enrollment request.	814er created and sent to Supplier	
	F3	Utility	867mu	Usage/Monthly: Utility will send first month usage	867mu created and sent to Supplier	
	F3	Utility	810	Invoice: Utility will send first month invoice	810 created and sent to Supplier	
	F5	Utility	867mu	Usage/monthly: Utility will cancel first month usage	867mu created and sent to Supplier	
	F5	Utility	810	Invoice: Utility will cancel first month invoice	810 created and sent to Supplier	
	F5	Utility	867mu	Usage/monthly: Utility will restate first month usage	867mu created and sent to Supplier	
F5	Utility	810	Invoice: Utility will restate first month invoice	810 created and sent to Supplier		

GAS 850DDR Test Scenario

G.100: 850 DDR - Not Applicable to Electric

Test the 850 DDR transaction.

G.100	Frame	Resp	Trans	Description	Expected Result	Actual Result
	F5	Utility	850DDR	Utility creates and sends 850DDR transaction to Supplier	850DDR created and sent to Supplier	

Test Plan for NAESB EDM Implementations

Tests to be conducted after the trading partners (identified as Host and Trading Partner) have exchanged URL, PGP private key, and X12 ISA/GS information. The test sequence can be initiated from either the LDC or ESP, as agreed by the partners.

Test Event and Acceptance Criteria	Completion Date	Status (Pass/Fail)
<p>1.0 Successful send of small X12 transaction from the Host to the Trading Partner</p> <p>1.1 Valid X12 test file signed, encrypted, and sent to Trading Partner. <i>Place the test file in the Host's outbound directory and send the file. Verify with Trading Partner that the file was received and correctly decrypted.</i></p> <p>1.2 Timestamped response received from Trading Partner. <i>Verify that the file was sent and the timestamp was received.</i></p>		
<p>2.0 Successful receipt of upload from a Trading Partner to the Host's NAESB EDM server</p> <p>2.1 X12 file received, decrypted, authenticated, and placed in inbound directory <i>Look in the Host's inbound directory and verify that the file was received and correctly decrypted.</i></p> <p>2.2 Trading Partner received timestamp with correct status information <i>Verify with Trading Partner that they received the timestamp.</i></p>		

Test Event and Acceptance Criteria	Completion Date	Status (Pass/Fail)
<p>3.0 Successful delivery of NAESB standard error message to Trading Partner</p> <p>3.1 Trading Partner sends X12 file with wrong DUNS number in “to” field. <i>Verify that a timestamp was sent indicating an error in the HTTP header.</i></p> <p>3.2 Trading Partner sends X12 file encrypted with wrong key. <i>Verify that a NAESB standard error file was sent. Contact Trading Partner and verify that they received the error file.</i></p>		
<p>4.0 Proper processing of NAESB standard error messages received from Trading Partner</p> <p>4.1 Send file to Trading Partner indicating wrong DUNS number in the “to” field <i>Verify receipt of a timestamp indicating an error in the HTTP header.</i></p> <p>4.2 Send file encrypted with wrong PGP key to Trading Partner <i>Encrypt a test file with a key other than the Trading Partner's public key. Send a test file using the bad key. After the test, make sure to replace the Trading Partner's key.</i></p> <p>4.3 Receive error file from Trading Partner indicating decryption failure. <i>Verify that a NAESB standard error file was received.</i></p>		

EDI / NAESB TRADING PARTNER WORKSHEET

	UGI Utilities, Inc – Electric Division	UGI Utilities, Inc – Gas Division	UGI Utilities, Inc - Penn Natural Gas
Company	UGI Utilities, Inc. – Electric Division	UGI Utilities, Inc – Gas Division	UGI Utilities, Inc – Penn Natural Gas
Business Area Contact	UGI EDI Electric Division	UGI EDI Gas Division	UGI EDI Gas Division
Fax	610-796-3559	610-796-3595	610-796-3595
E-mail	edi-electric@ugi.com	edi-gas@ugi.com	edi-gas@ugi.com
EDI Testing Contact	UGI EDI Technical	UGI EDI Technical	UGI EDI Technical
Fax	610-736-5447	610-736-5447	610-736-5447
E-mail	edi@ugi.com	edi@ugi.com	edi@ugi.com
DUNS Number Test	099427866T	799376595T	079167763T
DUNS Number Production	099427866	799376595	079167763
Test ISA Interchange Qual/ID	01 / 099427866T	01 / 799376595T	01 / 079167763T
Production ISA Interchange Qual / ID	01 / 099427866	01 / 799376595	01 / 079167763
Test GS	UGI1UGI1ISA2	UGI1GAS1ISA2	UGI1PNG1ISA2
Production GS	UGI1UGI1ISA1	UGI1GAS1ISA1	UGI1PNG1ISA1
NAESB Internet Electronic Delivery Mechanism (EDM)			
NAESB Common Code Identifier	099427866 – Production 099427866T – Test	799376595 – Production 799376595T – Test	079167763– Production 079167763T - Test
Production System URL:port/CGI (Primary)	http://prodgisb.ugi.com: 7403/GisbAgent.exe	http://prodgisb.ugi.com: 7403/GisbAgent.exe	http://prodgisb.ugi.com: 7403/GisbAgent.exe
ID / Password	Provided via e-mail	Provided via e-mail	Provided via e-mail
PGP Public Key Exchange Production System	Provided via e-mail	Provided via e-mail	Provided via e-mail
Test System URL:port/CGI (Primary)	http://testgisb.ugi.com:7 403/GisbAgent.exe	http://testgisb.ugi.com:7 403/GisbAgent.exe	http://testgisb.ugi.com:7 403/GisbAgent.exe
ID / Password	Provided via e-mail	Provided via e-mail	Provided via e-mail
PGP Public Key Exchange Test System	Provided via e-mail	Provided via e-mail	Provided via e-mail
Exchange/Protocol Failure Contact	UGI EDI Technical - edi@ugi.com	UGI EDI Technical - edi@ugi.com	UGI EDI Technical – edi@ugi.com
VAN Name (If VAN used)	Advantis	Advantis	Advantis
Do you support failover to the VAN (automatic or manual)	Yes – Manual at this time	Yes – Manual at this time	Yes – Manual at this time

Level 2 Test Frames – Required Transactions

Account #	Frame 1 SUPPLIER -> UTILITY		Frame 2 UTILITY -> SUPPLIER		
	Enrollment Request	Historic Usage Request	Enrollment Response	Historic Usage Response	Historic Usage
1	814E (CE)		814ER (CE) Reject code "A76"		
2	814E (CE & HU)	814 (HU)	814ER (CE & HU) Accept	814ER (HU) Accept	867HU
3	814E (CE)		814ER (CE) Accept		
4	814E (CE)		814ER (CE) Accept		
5	814E (CE)		814ER (CE) Accept		
6	814E (CE)		814ER (CE) Accept		
7	814E (CE)		814ER (CE) Accept		
8	814E (CE)		814ER (CE) Accept		
9	814E (CE)		814ER (CE) Accept		
10	814E (CE)		814ER (CE) Accept		

Account #	Frame 3 SUPPLIER -> UTILITY		Frame 4 UTILITY -> SUPPLIER	
	Transaction Type	Transaction Type	Transaction Type	Transaction Type
1				
2	814C			814CR – Accept
3		814C	814CR - Accept	
4	814D			814DR – Accept
5		814D	814DR - Accept	
6		867MU (810)*		
7		867MU (810)*		
8		867MU, 810		568, 820
9		867MU, 810		
10		867MU, 810		

* 810's are optional depending on the billing type.

Account #	Frame 5 UTILITY -> SUPPLIER	Frame 6 SUPPLIER -> UTILITY
	Transaction Type	Transaction Type
1		
2		
3		
4		
5	814R	814RR – Accept
6	867C, 867R, 867B	824R
7		
8		
9		
10	867C, 810C, 867R, 810R	
	850DDR	

Frame Legend:

814E (CE) = Enrollment Request

814E (CE & HU) = Enrollment Request which includes a request for Historic Usage

814ER (CE) = Enrollment Response

814ER (HU) = Historic Usage Request Response

867HU = Historic Usage Transaction

814C = Change Request

814CR = Change Response

814D = Drop Request

814DR = Drop Response

867MU = Monthly Usage Transaction

867C = Cancel Monthly Usage Transaction

867R = Restate Monthly Usage Transaction

810 = Billing Transaction

810C = Cancel Billing Transaction

810R = Restate Billing Transaction

820 = Remittance Transaction

814R = Reinstate Request

814RR = Reinstate Response

824R = Transaction Response