Case 98-M-0667
Supplement A7

New York Implementation Standard

For

Standard Electronic Transactions

TRANSACTION SET

814

Enrollment Request & Response

Ver/Rel 004010

~~May~~ November 13~~31~~, ~~2019~~2024
v. 2.10~~9~~

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		Summary of Changes
July 20, 2001		**Initial Release**
August 7, 2002		**Version 1.1 Issued**
		Added a REF*AJ segment (Utility Account Number for ESCO/Marketer) per June 21, 2002 order.
		The Field Descriptions Page was replaced with an updated version.
		The Front Matter Notes regarding 'Effective Date' were changed to reflect the business process rules regarding reinstatement adopted in an order issued on May 29, 2002. The list of documents provided under "Companion Documents' was also expanded to include the Reinstatement Implementation Guide and Business Process documents.
		Modified the Front Matter Notes regarding 'Secondary Services' to remove an erroneous reference to a REF*TZ segment and to clarify the use of the NM1 detail loop for an accept response to a secondary request for consumption history/gas profile. An NM1 loop is required an in accept response to an enrollment request (primary request) but is never sent in an accept response to a secondary request for consumption history/gas profile.
		Modified the segment notes for the following segments to distinguish between the use of each segment in the 814 transaction sent in response to an enrollment request versus the response to a secondary request for consumption history/gas profile data: N1*8R (Customer), N3/N4 (Service Address), N1*BT (Name for Mailing), N3/N4 (Mailing Address), REF*93 (Fee Approved/Fee Applied), REF*11 (E/M Customer Account Number), REF*45 (Previous Utility Account Number), REF*65 (Meter Cycle Code), REF*BF (Bill Cycle Code), REF*BLT (Bill Presenter), REF*PC (Bill Calculator), REF*NR (Current Budget Billing Status), REF*PGC (Partial Participation Portion), REF*SU (Customer on Life Support), REF*VI (Gas Pool ID), REF*GC (Gas Capacity Assignment/Obligation), REF*GS (Gas Supply Service Option), REF*ALC (Human Needs Indicator), REF*SPL (ISO Location Based Marginal Pricing Zones), REF*RP (Portion Taxed Residential), DTM*150 (Assigned Service Start Date), AMT*DP (Tax Exemption Percent), AMT*RJ (Commodity Price), AMT*KZ (Electric Capacity Assignment), and all segments contained in the NM1 Loop.
		Modified the element notes for REF03 in the REF*65 (Meter Cycle Code) and REF*BF (Bill Cycle Code) segments to clarify that this element is required in an accept response to an enrollment request when the data sent in REF02 is insufficient to describe both when and how frequently meters are scheduled to be read and/or bills are scheduled to be rendered per the document issued October 2, 2001.
		Clarified use of the REF03 element in the REF*TU (Use Time of Day) segment and element notes per document issued October 2, 2001.

		Summary of Changes (Continued)
November 26, 2002		**Version 1.2 Issued**
		• Added a new AMT segment (AMT*FW) to permit ESCO/Marketers to send fixed charge information as well as rates or rate codes when the bill option requested is Utility Rate Ready consolidated billing.
March 17, 2004		**Version 1.3 Issued**
		• Added code values to the 02 element in the REF*TU segment to enable Orange & Rockland Utilities, Inc. and Consolidated Edison of New York, Inc. (or other utilities at their option) to describe in more detail in an Accept Response transaction, the type of electric usage data ESCOs can expect to receive in either an 867HU or 867MU transaction. • Added AMT*9M and AMT*9N to enable ESCOs to transmit customer's tax rate information when the bill option requested is Utility Rate Ready consolidated billing and the Utility requires ESCOs to provide this data in an Enrollment transaction. When different tax rates are applicable to portions of the customer's service i.e. when a REF*RP segment is present in a Request transaction, it will be necessary to send both the 9M (residential tax rate applicable to a portion of the service) and the 9N segment (commercial tax rate applicable). • Notes regarding the attributes of "R" elements were added to the Front Matter notes.
May 17, 2006		**Version 2.0 Issued**
		• The "All meters per Account" section of the Front Matter Notes is revised to indicate that an ESCO/Marketer may separately enroll the un-metered electric service for accounts in Orange & Rockland's service territory where both metered and un-metered electric service are present on the account. To separately enroll the un-metered service the REF03 element must be present in the REF*12 (Utility Account Number) segment. • The "Cross Referencing Request and Response Transactions" section of the Front Matter Notes is revised to clarify the use of various segments/elements in an Enrollment Accept Response transaction when this transaction is not preceded by an Enrollment Request transaction sent by the E/M. • The "Fees" section of the Front Matter Notes is deleted. Prior to November 21, 2003 fees could be assessed for requests for history data under specific conditions. To accommodate fees, a REF*93 (Fee Approved/Fee Applied) segment was required to be sent in the LIN loop containing requests for historic usage (HU) or a gas profile (GP) to indicate whether the E/M was willing to pay a fee for the data if one was applicable. Under the current Uniform Business Practices fees may no longer be assessed for satisfying EDI requests for consumption history.
		• References to Niagara Mohawk or NMPC throughout the document were revised to refer to National Grid.

		Summary of Changes (Continued)
		• The element notes for BGN06 in the BGN Segment are revised to indicate that this element may be populated with the text 'MANUAL' in an Enrollment Accept Response transaction when there is no corresponding Request transaction, for example, when a customer participating in an ESCO Referral Program is enrolled by the utility and the Response is being sent to provide the assigned ESCO with the customer's account details. An additional example was also added to the BGN segment notes.
		• An N106 element is added to the N1*8R (Customer) segment to for use by utilities in Enrollment Accept Response transactions to identify the enrollment as an ESCO Referral Program enrollment.
		• A PER segment is added to the N1 (Customer) Loop to enable utilities that enroll customer's participating in ESCO Referral Programs with an ESCO to transmit the customer's telephone number in an Accept Response transaction**.**
		• The FNA code (Fee Not Authorized) is deleted from the list of possible reject reason codes in the REF*7G segment (Reject Response Reasons) and the REF*93 (Fee Approved/Fee Applied) segment is deleted from the standard. Fees are no longer being assessed for consumption history provided via EDI.
		• A REF03 element is added to the REF*12 segment (Utility Account Number) for use on Enrollment Requests sent to, or received from, Orange & Rockland Utilities when the transaction pertains to enrolling the un-metered portion of a customer's electric service when both metered and un-metered service are present on the same account.
		• The segment notes for the REF*BLT (Bill Presenter) and REF*PC (Bill Calculator) were revised to clarify the content of these segments for the Single Retailer Model in National Fuel Gas' service territory and to omit references to RG&E since Single Retailer is no longer offered in that service territory.
		• The notes for the REF*NR (Current Budget Billing Status) segment is also revised to omit reference to Rochester Gas & Electric's use of the Single Retailer model.
		• A REF*LF (E/M Late Fees) segment is added at the account level to enable E/Ms to communicate in Enrollment Request transactions sent to National Fuel Gas whether the utility should calculate and assess late fees on E/M charges for the account being enrolled. This segment pertains to the Utility Rate Ready bill option only.
		• The notes for the REF*SU (Customer on Life Support) segment is revised to omit reference to Rochester Gas & Electric's use of the Single Retailer model.
		• The REF*ALC segment (Human Needs Customer) notes are revised to indicate that this segment is required by National Grid only on gas enrollment requests for non-residential customers.

		Summary of Changes (Continued)
		• An AMT*BD (E/M Budget Plan Balance) and an AMT*B5 (E/M Budget Plan Installment Amount) segments are added for use in Enrollment Request transactions sent to National Fuel Gas to communicate a customer's budget plan installment and pre-existing budget plan balance when the customer's bill option is Utility Rate Ready billing and a REF*NR segment is present in the Request transaction.
		• The AMT*RJ (Commodity Price), AMT*FW (E/M Fixed Charge) and the REF*RB segment notes are revised to accommodate Enrollment Accept Response transactions associated with ESCO Referral Program enrollments initiated by the utility. The AMT*RJ and AMT*FW segments may contain zeros or dummy codes in Response transactions. The usage attribute for the REF*RB (ESCO Rate Code) segment in an Enrollment Accept Response transaction is changed from 'Not Used' to 'Conditional' so that National Grid may send this segment in an Enrollment Accept Response transaction for ESCO Referral Program enrollments.
October 23, 2014		**Version 2.1 Issued**

		• Adding these new segments from Case - 12-M-0476.
		  ○ REF*IJ (Industrial Classification Code),
		  ○ REF*TX (Utility Tax Exempt Status),
		  ○ REF*TDT (Account Settlement Indicator),
		  ○ REF*YP (NYPA Discount Indicator),
		  ○ REF*SG (Utility Discount)
		  ○ DTM*AB2 (ICAP Effective Dates)
		  ○ AMT*8B (Future ICAP Tag)
		  ○ DTM*AB4 (Future ICAP Tag Effective Dates)
		• Utility specific notes are generalized, as appropriate, and designated for relocation to/reference within Utility Maintained EDI Guides, as necessary.
		• Removed references to ESCO Referral Program
		• Replaced references to Marketer and E/M with ESCO.

April 7, 2015		**Version 2.2 Issued**
		• Added code SP to N1 Name (Customer) to enable Service Portability. • Clarifying revisions to ESCO Service Tax Rate related segments. • Correct the note for the AMT Monetary Amount (ICAP) segment to remove an 814 Change oriented phrase.
July 24, 2015		**Version 2.3 Issued**
		• Added code HUL to the REF Reference Identification (Response Information or Warnings) segment to notify the ESCO that no usage data to be reported or exchanged the PTD*FG loop in the 867HU transaction. • Added codes EM and FX to the PER Administrative Communications Contact (Customer Phone Number) segment to support utility optional exchange of Customer email addresses and facsimile numbers with ESCOs.

		• Revised Notes for DTM (ICAP Effective Dates), DTM (Future ICAP Effective Dates), AMT (ICAP) Segments and AMT (Future ICAP) Segments.
		• Added PER Administrative Communications Contact (Customer Phone Number) Segment to N1*BT loop • Removed obsolete Scenario 6 examples • Errata - Corrected acronym for North American Industry Classification System
January 29, 2016		**Version 2.4 Issued**

		• Modification to REF Reference Identification (Gas Capacity Assignment/Obligation) Segment to correspond to Orders issues in Case No. 07-G-0299.
		• Addition of Ref. Des. AMT03 to AMT Monetary Amount (Future ICAP) Segment to indicate presence of Special Program Adjustment Indicator.
		• Updated gas switching timeline reference to 10 business days.
		• Errata
		  ○ Addressed incorrect segment name in Detail: section.
		  ○ Generalized identities in examples.

June 30, 2016		**Version 2.5 Issued**
		• Update to conditionality of REF Reference Identification (Previous Utility Customer Account Number) segment.
March 31, 2017		**Version 2.6 Issued**
		• Update to conditionality of REF Reference Identification (Meter Cycle Code) segment. • Modifications to support 867 MIU/HIU transactions. • Addition of REF Reference Identification (Public Aggregator) segment.
October 31, 2017		**Version 2.7 Issued**
		• Inclusion of changes to address errata since filing of Version 2.6 in REF*1P segment.
April 30, 2018		**Version 2.8 Issued**
		• Addition of REF Reference Identification (APP Status) to communicate Customer APP Status in the Enrollment Response. • Elimination of references to NY Billing Agency model. • References to Single Retailer Model changed to ESCO Consolidated Billing, where appropriate.
May 31, 2019		**Version 2.9 Issued**
		• Modifications to REF~PC segment regarding ESCO Combined Billing. • Optional REF*KY added to indicate whether the account has associated generation.
November 13, 2024		**Version 2.10 Issued**
		• Addition of list of utilities to note under REF Reference Identification (Utility Account Number for ESCO) • Addition of GAS ONLY to note under REF Reference Identification (Gas Pool ID) • Addition of GAS ONLY to note under REF Reference Identification (Gas Supply Service Option)

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		• Addition of Assistance Program Participants verbiage to clarify meaning of APP in REF01 section of REF Reference Identification (APP Status)

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		Notes pertaining to the use of this document
Purpose		• This 814 Enrollment Transaction Set will be used to enroll or switch a customer, and to request secondary services coincident with that customers' enrollment. These standards are based on the ASC X12 Ver/Rel 004010 standard and related UIG guidelines.
One account per 814		• Each transaction may contain only one account for one commodity (i.e. electric, gas, etc.). If a customer takes both electric and gas bundled service from the utility under a single account number, and the ESCO supplies both electric and gas, two 814 enrollment requests must be submitted – one for the switch of electric service and another for the switch of gas service.
All meters per account		• Except where a utility supports separate enrollment of the un-metered electric service for accounts, when a customer enrolls with an ESCO for their electric service, all electric meters (and/or un-metered electric service) on the customer's account will be enrolled with that supplier. Similarly, an enrollment with the same (or a different) supplier for gas service, will result in the enrollment of all gas meters with that supplier. • Where a utility supports separate enrollment of the un-metered electric service for accounts, when both metered and un-metered electric service is present on an account, an ESCO may separately enroll (or drop) the un-metered service on that account by transmitting the REF03 element in the REF*12 (Utility Account Number) segment.
Multiple requests per commodity per account		• This 814 Transaction Set can accommodate more than one action request per commodity per account. Each request should be in a separate LIN loop but the request for enrollment (LIN05 = CE) is considered the primary request and should be placed first in the transaction. Refer to the LIN segment in this document for a better understanding of primary and secondary services. The secondary requests reflected in this implementation guide are requests for actual history data for the customer being enrolled or a request for a gas profile for a customer being enrolled for gas service.

Cross referencing Request and Response transactions		• In most instances, the id sent in the BGN02 element in the BGN segment in a request must be returned in the BGN06 element of the BGN segment sent in a Response transaction. There must be one response LIN for each request LIN sent. It is possible, for example, to accept an enrollment request (LIN05 = CE) but reject the secondary request for history data (LIN05 = HU). The response to each LIN loop on the request must be uniquely identified on the response with the same identification sent in the request LIN01. Responses may be created and sent at different times in different 814 transactions, but all LINs must be responded to within the time limits set by the Commission in the Uniform Business Practices. • In Enrollment Accept Response transactions for which there is no corresponding Enrollment Request transaction, the BGN06 element in the BGN segment will be populated with the word "MANUAL" in lieu of the BGN02 id from a Request transaction.
Validation Fields		• Validation field is the customer's utility account number (with check digit, if included).

Effective Date		• The effective enrollment date for a customer should not be sent in 814 Enrollment Requests. The effective enrollment date for an account is determined by the Utility and will be returned in an Enrollment Accept Response transaction. Customers will be enrolled with a supplier coincident with the date of the customer's next regularly scheduled meter read date or the first of the month for gas, provided that the suppliers request has been received and processed by the Utility at least 5 business days (10 business days for gas) in advance of this date and the customer has not rescinded the pending enrollment. • Valid enrollment requests that do not comply with the 5 business (10 business days for gas) requirement may not be rejected; the customer may be enrolled on the next succeeding meter read date for that customer or the first of following month for gas (if a special read has NOT been requested) provided that the customer has not rescinded the pending enrollment request. The *Reinstatement Business Process* document should also be reviewed for a description of factors that may affect the determination of the effective date for an enrollment. • A customer may be enrolled with an ESCO on an off cycle date but these requests are not currently being processed via EDI. Arrangements for an off cycle enrollment date should be made directly with the Utility and will only be granted subject to the requirements of that Utility's tariffs.
Secondary Services		• The secondary requests reflected in this implementation guide are a request for history data (LIN05 = HU) or a request for a gas profile (LIN05=GP). • When the enrollment request (LIN = CE) is rejected, all secondary services requested coincident with that enrollment will also be rejected. • LIN05 = GP is a secondary service request for a gas profile for the customer being enrolled. A gas profile is a weather-normalized forecast for a twelve-month period for the customer being enrolled. Gas profiles are not supported by all Utilities (see Conditional Data Segments below). When this request is accepted, the ESCO will receive an 814 Accept Response transaction and the gas profile data will be provided in an 867HU transaction. • LIN05 = HU is a secondary service request for history data for the customer being enrolled. When this request is accepted, the ESCO will receive an 814 'accept' response transaction and summarized data on usage for the most recent 12 month period (or the life of the account, if shorter) for the customer being enrolled in an 867 HU transaction. • The REF*MT (Measurement Type and Reporting Interval) and REF*TU (Use Time of Day) segments in the NM1 loop may be used to describe the type(s) of usage a meter is capable of measuring. An NM1 loop will only be returned in an 814 response transaction accepting the enrollment request. • The REF*TU segment would not be used in a response to a gas enrollment request and would only be sent in a response to an electric enrollment request when either the REF03 element in the REF*MT segment is "COMBO" or electric usage is being measured for multiple time periods in a day on the account being enrolled.

		• Although data sent in a REF*MT segment may indicate that a meter is capable of measuring usage in intervals, such as 15 or 30 minutes, no interval data will be returned in an 867HU transaction in response to an HU request. Requests for interval data on customer accounts must be sent in a separate 814-request transaction and not as a secondary request on an enrollment transaction. Arrangements for receipt of interval data, and usage data in excess of 12 months, must be made with the applicable utility since this data may not be returned on an 867 transaction. • A request for consumption history that is not coincident with a request for enrollment is addressed in another implementation guide (see *TS 814 Consumption History Request & Response*).
Single Retailer Model		• There are some significant differences in the required segments for an enrollment request (and related secondary services) and responses where the Single Retailer Model has been implemented for retail access. These differences have been noted in the notes and gray box text in the individual data segments in this implementation guide.
Data Element Attributes		• Data elements whose X12 attribute type is 'R' (see the AMT segments for examples) are treated as real numbers. Real numbers are assumed to be positive numbers and a minus (-) sign must precede the amount when a negative number is being sent. Real numbers do NOT provide for an implied decimal position; therefore a decimal point must be sent when decimal precision is required. Note that in transmitting real numbers it is acceptable, but not necessary, to transmit digits that have no significance i.e. leading or trailing zeros.
Conditional Data Segments		• There are minor differences in the extent to which specific data elements are supported by each Utility and/or whether they are applicable to both electric and gas services. These differences have been noted, for the most part, in the data dictionary associated with this implementation guide. • Where a utility provides gas profile data, if the LIN05 = GP and the Utility does not support gas profiles, the Utility will return the default history data, for the account being enrolled, on an 867 (i.e. up to 12 months of usage, or the life of the account).
Definitions		• The term Utility or LDC (Local Distribution Company) is used in this document to refer to the local gas or electric distribution company, i.e. the entity providing regulated bundled commodity service. The term ESCO is used in this document to refer to either a gas or electric supplier. The principal parties involved in this Transaction Set 814 implementation guide are: ➢ The end-use customer (Code 8R) ➢ The Utility (LDC) (Code 8S) ➢ The Supplier (ESCO or ESCO) (Code SJ).
Rejection vs. Acceptance with Status Reason code		• A warning/informational code is different than a Rejection Reason code. The warning code is used to give additional information to the receiving party (an FYI). If an 814 Request does not contain a segment required by the recipient Utility and/or a segment contains incorrect data, some Utilities will reject the transaction while others may accept the transaction and send a warning in their 814 response. Refer to the

		data dictionary associated with this implementation guide for further clarification.
Companion Documents		• All of the applicable business rules for New York are not necessarily documented in this implementation guide. Accordingly, the following documents should be reviewed where further clarification is needed: ➢ *Enrollment Business Processes document* ➢ *TS 814 Enrollment Request and Response Data Dictionary* ➢ *TS 814 Reinstatement Request & Response Implementation Guide* ➢ *Reinstatement Business Processes Document* ➢ *TS 814 Change (Account Maintenance) Implementation Guide*

Implementation Guideline Field Descriptions

This section shows the X12 Rules for this segment but the Usage and Max Use fields will also reflect NY rules. For Usage, "Optional (Must Use)" means that this segment is Optional for X12, but is required in NY. "Optional (Dependent)" means Optional for X12, but use is conditional in NY. The gray boxes below should also be reviewed for additional NY Rules.

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

This section displays the NY Rules for implementation of this segment.

This section displays the NY Rules for implementation of this segment.

nt number assigned to the customer is used for validation and must be present on all ons.

One or more examples.

REF~12~011231287654398

Data Element Summary

	Ref Des.	Data Element	Name	X12 Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
		12	Billing Account REF02 contains the Utility-assigned account number for the customer.	
Must Use	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			Utility assigned customer account n u m b e r The utility account number must be supplied without intervening spaces or non-alphanumeric characters. (Characters added to aid in visible presentation on a bill, for example, should be removed)	

These columns show the X12 attributes for each data element:
M = Mandatory
X = Conditional

AN = Alphanumeric
N# = Implied Decimal
ID = Identification
R = Real
DT = Date (CCYYMMDD)

1/30 = Minimum 1, Maximum 30

This column documents differences between X12 and NY use for each data element:

Mand. (Mandatory) – Required by X12
Must Use – Required by NY
Cond. (Conditional)
Optional

814 Enrollment Request and Response

Functional Group ID=GE

Introduction:

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

Notes:

This guideline is limited to defining the required and optional information needed to satisfy a request for enrollment, a response accepting the enrollment request, a response rejecting the enrollment request, and the requests and responses for secondary services that may be requested in conjunction with the enrollment request.

Heading:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
4	010	ST	Transaction Set Header	M	1		
5	020	BGN	Beginning Segment	M	1		
			LOOP ID - N1			1	
6	040	N1	Name (ESCO)	O	1		
			LOOP ID - N1			1	
7	040	N1	Name (Utility)	O	1		
			LOOP ID - N1			1	
8	040	N1	Name (Customer)	M	1		
9	060	N3	Address Information (Service Address)	O	1		
10	070	N4	Geographic Location (Service Address)	O	1		
11	080	PER	Administrative Communications Contact Customer Phone Number)	O	1		
			LOOP ID - N1			1	
13	040	N1	Name (Name for Mailing)	O	1		
14	060	N3	Address Information (Mailing Address)	O	1		
15	070	N4	Geographic Location (Mailing Address)	O	1		
16	080	PER	Administrative Communications Contact Customer Phone Number)	O	1		

Detail:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - LIN			>1	
17	010	LIN	Item Identification	O	1		
19	020	ASI	Action or Status Indicator	O	1		
20	030	REF	Reference Identification (Reject Response Reasons)	O	>1		
21	030	REF	Reference Identification (Response Information or Warnings)	O	>1		
22	030	REF	Reference Identification (ESCO Customer Account Number)	O	1		
23	030	REF	Reference Identification (Utility Account Number)	O	1		

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24	030	REF	Reference Identification (Previous Utility Account Number)	O	1		
25	030	REF	Reference Identification (Utility Account Number for ESCO)	O	1		
26	030	REF	Reference Identification (Meter Cycle Code)	O	1		
27	030	REF	Reference Identification (Bill Cycle Code)	O	1		
28	030	REF	Reference Identification (Bill Presenter)	O	1		
29	030	REF	Reference Identification (Bill Calculator)	O	1		
30	030	REF	Reference Identification (Current Budget Billing Status)	O	1		
31	030	REF	Reference Identification (ESCO Late Fees)	O	1		
32	030	REF	Reference Identification (Partial Participation Portion)	O	1		
33	030	REF	Reference Identification (Customer on Life Support)	O	1		
34	030	REF	Reference Identification (Gas Pool ID)	O	1		
35	030	REF	Reference Identification (Gas Capacity Assignment/Obligation)	O	1		
36	030	REF	Reference Identification (Gas Supply Service Option)	O	1		
37	030	REF	Reference Identification (Human Needs Customer)	O	1		
38	030	REF	Reference Identification (ISO Location Based Marginal Pricing Zones)	O	1		
39	030	REF	Reference Identification (Portion Taxed Residential)	O	1		
40	030	REF	Reference Identification (Account Settlement Indicator)	O	1		
41	030	REF	Reference Identification (NYPA Discount Indicator)	O	1		
42	030	REF	Reference Identification (Utility Discount Indicator)	O	1		
43	030	REF	Reference Identification (Industrial Classification Code)	O	1		
44	030	REF	Reference Identification (Utility Tax Exempt Status)	O	1		
45	030	REF	Reference Identification (Interval Usage Option)	O	1		
46	030	REF	Reference Identification (Public Aggregator)	O	1		
47	030	REF	Reference Identification (APP Status)	O	1		
48	030	REF	Reference Identification (Net Meter Indicator)	O	1		
49	040	DTM	Date/Time Reference (Assigned Service Start Date)	O	1		
50	040	DTM	Date/Time Reference (ICAP Effective Date)	O	1		
51	040	DTM	Date/Time Reference (ICAP Future Effective Date	O	1		
52	060	AMT	Monetary Amount (ESCO Budget Plan Installment Amount)	O	1		
52	060	AMT	Monetary Amount (ESCO Budget Plan Balance)	O	1		
54	060	AMT	Monetary Amount (Tax Exemption Percent)	O	1		
55	060	AMT	Monetary Amount (Commodity Price)	O	1		
56	060	AMT	Monetary Amount (ESCO Fixed Charge)	O	1		
57	060	AMT	Monetary Amount (Customer's Tax Rate for ESCO Charges - 1)	O	1		
58	060	AMT	Monetary Amount (Customer's Tax Rate for ESCO Charges - 2)	O	1		
59	060	AMT	Monetary Amount (ICAP)	O	1		
60	060	AMT	Monetary Amount (Future ICAP)	O	1		
				O	1		
			LOOP ID - NM1			>1	
61	080	NM1	Metered or UnMetered Service Points	O	1		n1
62	130	REF	Reference Identification (Utility Rate Service Class)	O	1		

63	130	REF	Reference Identification (Rate Sub Class)	O	1
64	130	REF	Reference Identification (Utility Load Profile Group Code)	O	1
65	130	REF	Reference Identification (Measurement Type and Reporting Interval)	O	1
68	130	REF	Reference Identification (Use Time of Day)	O	>1
70	130	REF	Reference Identification (ESCO Rate Code)	O	1
71	150	SE	Transaction Set Trailer	M	1
E-1			Examples		

Transaction Set Notes

1. The N1 loop is used to identify the parties to this transaction.
2. The LIN loop is used to transmit account level data.
3. The NM1 loop is used to transmit meter level data.

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

ST~814~0001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**ST01**	**143**	**Transaction Set Identifier Code**	**M**	**ID 3/3**
			814 General Request, Response or Confirmation		
Mand.	**ST02**	**329**	**Transaction Set Control Number**	**M**	**AN 4/9**

Segment: **BGN** **Beginning Segment**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a transaction set
Syntax Notes: **1** If BGN05 is present, then BGN04 is required.
Semantic Notes: **1** BGN02 is the transaction set reference number.
2 BGN03 is the transaction set date.
3 BGN04 is the transaction set time.
4 BGN05 is the transaction set time qualifier.
5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.
Notes: Request: Required
Response: Required
Request: BGN~13~20000301145101~20060301
Response: BGN~11~20000402072434~20060302~~~20060301145101
Response: BGN~11~20000402072434~ 20060302~~~MANUAL

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**BGN01**	**353**	**Transaction Set Purpose Code**		**M**	**ID 2/2**
			11	Response		
			13	Request		
Mand.	**BGN02**	**127**	**Reference Identification**		**M**	**AN 1/30**
			A unique transaction identifier number assigned by the originator of this transaction. The BGN02 element from the requesting transaction is returned in the BGN06 element in the response to that request.			
Mand.	**BGN03**	**373**	**Date**		**M**	**DT 8/8**
			The date the transaction was created by the sender's application system in the form CCYYMMDD.			
Cond.	**BGN06**	**127**	**Reference Identification**		**O**	**AN 1/30**
			This element is not used on a request transaction but is required in a response transaction. If a customer enrollment is initiated by an ESCO via transmission of an 814 Enrollment Request transaction, the BGN06 element in a Response transaction must contain the transaction id in the BGN02 element in the corresponding Request transaction. When a customer is enrolled with an ESCO by the utility and there is no corresponding Request transaction, for example the BGN06 element will be populated with text (the word "MANUAL") in lieu of the BGN02 id from a Request transaction.			

Segment: **N1** **Name (ESCO)**
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Notes: Request: Required
Response: Required

N1~SJ~~24~123456789
N1~SJ~ESP COMPANY~24~123456789

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**N101**	**98**	**Entity Identifier Code**		**M**	**ID 2/3**
			SJ	Service Provider		
				Identifies the ESCO participating in this transaction.		
Optional	**N102**	**93**	**Name**		**X**	**AN 1/60**
			Free Form ESCO Company Name			
			Supplemental text information supplied, if desired, to provide "eyeball" identification of the ESCO. It is not necessary for successful completion of the transaction but may be provided by mutual agreement between trading partners.			
Must Use	**N103**	**66**	**Identification Code Qualifier**		**X**	**ID 1/2**
			1	D-U-N-S Number, Dun & Bradstreet		
			9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
			24	Employer's Identification Number		
				Federal Tax ID		
Must Use	**N104**	**67**	**Identification Code**		**X**	**AN 2/80**
			The D-U-N-S number or the Federal Tax ID			

Segment: **N1** **Name (Utility)**
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Notes: Request: Required
Response: Required

N1~8S~~24~12345678
N1~8S~UTILITY COMPANY~24~12345678

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**N101**	**98**	**Entity Identifier Code**		**M**	**ID 2/3**
			8S	Consumer Service Provider (CSP)		
				Identifies the Utility participating in this transaction.		
Optional	**N102**	**93**	**Name**		**X**	**AN 1/60**
			Free Form Utility Company Name			
			Supplemental text information supplied, if desired, to provide "eyeball" identification of the ESCO. It is not necessary for successful completion of the transaction but may be provided by mutual agreement between trading partners.			
Must Use	**N103**	**66**	**Identification Code Qualifier**		**X**	**ID 1/2**
			1	D-U-N-S Number, Dun & Bradstreet		
			9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
			24	Employer's Identification Number		
				Federal Tax ID		
Must Use	**N104**	**67**	**Identification Code**		**X**	**AN 2/80**
			The D-U-N-S number or the Federal Tax ID			

Segment: **N1** **Name (Customer)**
Position: 040
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify the customer in this transaction.
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Notes:

Request: Required
Enrollment Accept Response: Required
Other Responses: Optional

An Enrollment Accept Response being returned by the Utility must contain the service address for the account being enrolled. When service address is being sent (in the N3 and N4 segments in this N1 loop) an N1 segment is required.
The N106 element may be used on Enrollment Accept Response transactions pertaining to ESCO Service Portability.

N1~8R~NAME
N1~8R~MARY SMITH~~~~SP

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**N101**	**98**	**Entity Identifier Code**		**M**	**ID 2/3**
			8R	Consumer Service Provider (CSP) Customer		
			Identifies the end use customer targeted by this transaction.			
Must Use	**N102**	**93**	**Name**		**X**	**AN 1/60**
			Customer Name Supplemental text information may be supplied to provide "eyeball" identification of the customer in this transaction. It is not necessary for successful completion of the transaction but may be provided by mutual agreement between trading partners. To comply with ANSI X12 requirements this segment must be sent in an accepted enrollment response because the response must contain service address information. Some Utilities may not provide the actual customer name but will send the literal 'NAME' in this position.			
Cond.	**N106**	**98**	**Entity Identifier Code**		**O**	**ID 2/3**
			SP	Party Filling Shipper's Order		
			Service Portability If supported by the Utility, provided by the Utility to indicate when a residential customer that has moved within a utility's service territory has elected to retain their ESCO service at the customer's new address.			

Segment: **N3** **Address Information (Service Address)**
Position: 060
Loop: N1 Mandatory
Level: Heading
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Notes:

Request : Not Used
Enrollment Accept Response: Required.
History Accept Response: Optional
Other Response: Not Used

N3~123 N MAIN ST~Service Address Overflow

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**N301**	**166**	**Address Information** Customer's Service Address	**M**	**AN 1/55**
Cond.	**N302**	**166**	**Address Information** Service address overflow	**O**	**AN 1/55**

Segment: **N4** **Geographic Location (Service Address)**
Position: 070
Loop: N1 Mandatory
Level: Heading
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
Notes:

Request:	Not Used
Enrollment Accept Response:	Required.
History Accept Response:	Optional
Other Response:	Not Used

N4~MYCITY~NY~19123
N4~MYCITY~NY~191230123

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**N401**	**19**	**City Name**	**O AN 2/30**
Must Use	**N402**	**156**	**State or Province Code**	**O ID 2/2**
Must Use	**N403**	**116**	**Postal Code**	**O ID 3/15**

Segment: **PER** **Administrative Communications (Contact Customer Phone Number)**
Position: 080
Loop: N1 Mandatory
Level: Heading
Usage: Optional (Dependent)
Max Use: 1
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:
1 If either PER03 or PER04 is present, then the other is required.
2 If either PER05 or PER06 is present, then the other is required.
3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:
Notes:

Request: Optional
Enrollment Accept Response: Conditional

The Customer's Phone Number, Facsimile Number and/or Email Address may be sent in an Accept Response transaction, at the discretion of the Utility. If the Enrollment Accept Response does not provide an item, the ESCO should presume the utility has no information to provide.

The format for phone/facsimile numbers is area code + 7 digit number (xxxyyyzzzz). In its Utility Maintained EDI Guide, a utility will indicate if it accepts Enrollment Requests and/or sends Enrollment Responses containing the Customer's Telephone/ Facsimile number and/or Email Address.

PER~IC~~TE~7165551212
PER~IC~~TE~NOT AVAIL
PER~IC~~TE~7165551212~FX~7165551234~EM~CUSTNAME@EMAILSERV.COM
PER~IC~~EM~CUSTNAME@EMAILSERV.COM

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**PER01**	**366**	**Contact Function Code**		**M**	**ID 2/2**
			IC	Information Contact		
Mand.	**PER03**	**365**	**Communication Number Qualifier**		**M**	**ID 2/2**
			Contact telephone number associated with the customer account identified in REF*12.			
			EM	Email Address		
			FX	Facsimile		
			TE	Telephone		
				Code identifying the type of communication number/ address for the customer associated with this account.		
Mand.	**PER04**	**364**	**Communication Number**		**M**	**AN 1/80**
			Customer's phone number according to utility records. Where the utility does not have a telephone number on record, this element may contain the text 'NOT AVAIL'.			
Optional	**PER05**	**365**	**Communication Number Qualifier**		**X**	**ID 2/2**
			EM	Email Address		
			FX	Facsimile		
			TE	Telephone		
				Code identifying the type of communication number/ address for the customer associated with this account.		
Optional	**PER06**	**364**	**Communication Number**		**X**	**AN 1/80**
			Complete communications number/address according to sender's records.			
Optional	**PER07**	**365**	**Communication Number Qualifier**		**X**	**ID 2/2**
			EM	Email Address		
			FX	Facsimile		
			TE	Telephone		

				Code identifying the type of communication number/ address for the customer associated with this account.		
Optional	**PER08**	**364**	**Communication Number**		**X**	**AN 1/80**
			Complete communications number/address according to sender's records.			

Segment: **N1** **Name (Name for Mailing)**
Position: 040
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code.

Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.

Semantic Notes:

Notes: Request : Not Used
Enrollment Accept Response: Conditional
Other Responses: Not Used

This segment must be sent by the Utility in an Accept Response to an enrollment request when the ESCO is the bill presenter and the customer's mailing address for billing differs from the service address.

N1~BT~C/O Accounts Receivables Dept.
N1~BT~Robert J. McDonald DBA Tiny Tots
N1~BT~Ben Jones, Mgr. Store 16

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			BT Bill-to-Party Name for Mailing Address		
Must Use	**N102**	**93**	**Name**	**X**	**AN 1/60**
			Name associated with the mailing address for billing		

Segment: **N3** **Address Information (Mailing Address)**
Position: 060
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Notes: Request: Not Used
Enrollment Accept Response: Conditional
Other Responses: Not Used

This segment must be sent by the Utility in an Accept Response to an enrollment request when the ESCO is the bill presenter and the mailing address differs from service address.

N3~123 N Main St~Room 323
N3~Large Company~Mailing Address Overflow

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**N301**	**166**	**Address Information**	**M**	**AN 1/55**
			Mailing Address for Billing		
Cond.	**N302**	**166**	**Address Information**	**O**	**AN 1/55**
			Mailing Address for Billing Overflow		

Segment: **N4** **Geographic Location (Mailing Address)**
Position: 070
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
Notes: Request: Not Used
Enrollment Accept Response: Conditional
Other Responses: Not used

This segment must be sent by the Utility in an Accept Response to an enrollment request when the ESCO is the bill presenter and the mailing address differs from service address.

N4~ANYCITY~NY~141231234~US
N4~BARBUDA CITY~~A6T 1SWB~AG

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**N401**	**19**	**City Name**	**O AN 2/30**
Must Use	**N402**	**156**	**State or Province Code**	**O ID 2/2**
Must Use	**N403**	**116**	**Postal Code**	**O ID 3/15**
			Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	
Cond.	**N404**	**26**	**Country Code**	**O ID 2/3**
			Refer to ISO 3166 for country codes	

Segment: **PER** **Administrative Communications Contact (Customer Phone Number)**
Position: 080
Loop: N1 Optional (Dependent)
Level: Heading
Usage: Optional (Dependent)
Max Use: 1
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:
1 If either PER03 or PER04 is present, then the other is required.
2 If either PER05 or PER06 is present, then the other is required.
3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:
Notes:

Request: Not Used
Enrollment Accept Response: Conditional
Other Responses: Not used

This segment is sent in the N1 Name (Name for Mailing) Loop and must be accompanied by an N1*BT segment.

PER~IC~~TE~7166756271

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**PER01**	**366**	**Contact Function Code** IC Information Contact	**M ID 2/2**
Must Use	**PER03**	**365**	**Communication Number Qualifier** TE Telephone Contact telephone number for the customer associated with this account.	**X ID 2/2**
Must Use	**PER04**	**364**	**Communication Number** Customer's telephone number in the format xxxyyyzzzz (Area code+7 digit number).	**X AN 1/80**

Segment: **LIN** **Item Identification**
Position: 010
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:
1 If either LIN04 or LIN05 is present, then the other is required.
2 If either LIN06 or LIN07 is present, then the other is required.
3 If either LIN08 or LIN09 is present, then the other is required.
4 If either LIN10 or LIN11 is present, then the other is required.
5 If either LIN12 or LIN13 is present, then the other is required.
6 If either LIN14 or LIN15 is present, then the other is required.
7 If either LIN16 or LIN17 is present, then the other is required.
8 If either LIN18 or LIN19 is present, then the other is required.
9 If either LIN20 or LIN21 is present, then the other is required.
10 If either LIN22 or LIN23 is present, then the other is required.
11 If either LIN24 or LIN25 is present, then the other is required.
12 If either LIN26 or LIN27 is present, then the other is required.
13 If either LIN28 or LIN29 is present, then the other is required.
14 If either LIN30 or LIN31 is present, then the other is required.
Semantic Notes:
1 LIN01 is the line item identification
Notes:
Request : Required
Response: Required

Request only one action event per LIN Loop. The LIN01 contains a unique identifier for the action event. The LIN03 specifies the product (electric or gas) and the LIN05 specifies the type of service request.

The enrollment request (LIN05=CE) is considered the primary service request when present. "Secondary" action event(s) must be requested in separate LIN loops.

LIN~AACCDD0102004A~SH~EL~SH~CE Electric Enrollment
LIN~AACCDD0102005A~SH~EL~SH~HU Usage History
LIN~AACCDD0102006A~SH~GAS~SH~GP Gas Profile

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	**LIN01**	**350**	**Assigned Identification**		**O**	**AN 1/20**
			The identifier supplied in this element either by itself or in conjunction with the BGN02 element from the BGN segment must uniquely identify each LIN request item over time.			
Mand.	**LIN02**	**235**	**Product/Service ID Qualifier**		**M**	**ID 2/2**
			SH	Service Requested		
Mand.	**LIN03**	**234**	**Product/Service ID**		**M**	**AN 1/48**
			Only one commodity (Electric or Gas) may be indicated for each 814 transaction.			
			EL	Electric		
			GAS	Gas Service		
Must Use	**LIN04**	**235**	**Product/Service ID Qualifier**		**X**	**ID 2/2**
			SH	Service Requested		

Must Use	LIN05	234	Product/Service ID		X	AN 1/48
			CE	Customer Enrollment Request to enroll this customer for Energy Services. A Request for enrollment is considered the primary request when present.		
			GP	Gas Profile Request a 12 month forecasted gas delivery profile. Valid only when LIN03=GAS. Gas Profiles are not supported by all utilities. If a Gas Profile request is sent to a Utility that does not support gas profiles, the Utility will return Historic Usage, if available, in the 867 sent in response to the Gas Profile request. When supported, a GP request may still be rejected if there is insufficient data to develop a gas profile for that customer.		
			HU	Historic Usage Request for Usage History GAS note: Some utilities support a Gas Profile in lieu of actual history and will return a Gas Profile, if sufficient data exists, in the 867 sent in response to the request for Historic Usage.		
			HI	Historic Interval Usage Request for Interval Usage History at the account level. Indicates an ESCO request to obtain historical interval usage information for this customer. If this customer account does not have interval meter, 867HU report will be provided without Interval Usage.		
			HG	Historic Interval Usage Request for Interval Usage History at the meter detail level. Indicates an ESCO request to obtain historical interval usage information for this customer at the meter detail level. If this customer account does not have interval meter, 867HU report will be provided without Interval Usage.		

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

Request:	Required
Response:	Required
ASI~7~021	Enrollment Request
ASI~7~029	History Request
ASI~WQ~021	Accept Response for an enrollment request
ASI~WQ~029	Accept Response for a history request
ASI~U~021	Reject Response for an enrollment request
ASI~U~029	Reject Response for a history request
ASI~AC~021	Acknowledge receipt of enrollment request; a response will be sent via non-EDI means.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**ASI01**	**306**	**Action Code**		**M ID 1/2**
			7	Request	
			AC	Acknowledge	
				This code is sent to acknowledge receipt of an enrollment request for an account that is traditionally processed 'off-line'. A response for these requests will be sent via non-EDI means. A REF~1P segment may be used to provide additional clarification when this code is sent in a Response transaction.	
			U	Reject	
			WQ	Accept	
Mand.	**ASI02**	**875**	**Maintenance Type Code**		**M ID 3/3**
			021	Addition	
				Use this code to indicate the action event is an enrollment.	
			029	Inquiry	
				Use this code to indicate the action event or status is associated with Historic Usage or Gas Profile requests.	

Segment: **REF** **Reference Identification (Reject Response Reasons)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Request: Not used
Reject Response: Required (ASI01=U)
Other Responses: Not Used

REF~7G~A76

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			7G	Data Quality Reject Reason	
				REF02 contains a reject reason code.	
Must Use	**REF02**	**127**	**Reference Identification**		**X AN 1/30**
			A13	Other	
				See REF03	
			A76	Account # not valid	
			A78	Customer Already active for marketer (Item or Service Already established, cannot add)	
			A80	Service requested is not available	
			A91	Account does not have service requested	
				Requested commodity does not exist on account.	
			ABN	Account Pending with this Marketer	
			ANE	Ineligible Customer	
				Invalid Service Class Service Class Over subscribed Customer must be submitted during enrollment period	
			ANL	ESCO Not eligible to enroll Customer	
				Oversubscribed Not valid in service territory	
			CAB	Customer Account Blocked	
			HUR	Historical Usage not Released	
			HUU	Historical Use not Available	
				New Customer	
			IGP	Invalid Gas Pool ID	
			M76	Meter Number Invalid or Not Found	
			NFI	Not first in	
			SSR	Secondary Request Rejected	
Cond.	**REF03**	**352**	**Description**		**C AN 1/80**
			Additional text information may be sent in REF03 to aid in resolving a rejected transaction. REF03 must be sent if REF02 contains A13.		

Segment: **REF** **Reference Identification (Response Information or Warnings)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Request: Not used
Response: Optional

REF~1P~I01

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			1P	Accessorial Status Code	
				Warnings or information associated with an accepted status notification	
Must Use	**REF02**	**127**	**Reference Identification**		**X AN 1/30**
			A13	Other	
				See REF03.	
			API	Application Incomplete	
				Required Information Missing. See REF03 for details.	
			FRB	Failed to Release Billing	
				Incorrect Billing option requested.	
			HUL	Historic Usage Limited May be sent when a secondary request for usage history is received along with an enrollment request to indicate that the 867HU will not contain any usage data.	
			I01	Off System Account	
			I02	Partial Requirements Customer	
			NIA	Not Interval Account	
			NMA	Net Metered Account	
				Interval Usage is not meaningful. 867HU will be provided without interval usage.	
Cond.	**REF03**	**352**	**Description**		**X AN 1/80**
			Additional text information may be sent in REF03 to clarify the details of an Accept Response. REF03 must be sent when REF02 in this segment contains A13 or API.		

Segment: **REF** **Reference Identification (ESCO Customer Account Number)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Request: Conditional
Accept Responses: Optional
Other Responses: Not Used

Must be sent on an Enrollment Request when the Utility is the bill presenter (REF*BLT=LDC). The segment is optional in an Accept Response.

REF~11~A12345009Z

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			11	Account Number		
				REF02 is the ESCO Assigned account number for the customer.		
Must Use	**REF02**	**127**	**Reference Identification**		**X**	**AN 1/30**
			ESCO Marketer's assigned account number for the customer.			

Segment: **REF** **Reference Identification (Utility Account Number)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C05005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Request: Required
Response: Required

REF~12~011231287654398
REF~12~011231287654398~U

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			12	Billing Account		
			REF02 contains the Utility-assigned account number for the customer.			
Must Use	**REF02**	**127**	**Reference Identification**		**X**	**AN 1/30**
			Utility assigned customer account number The utility account number must be supplied without intervening spaces or non-alphanumeric characters. (Characters added to aid in visible presentation on a bill, for example, should be removed)			
Cond.	**REF03**	**352**	**Description**		**X**	**AN 1/80**
			For utilities that support the practice of responding to requests pertaining specifically to the un-metered portion of accounts, the REF03 element in the REF*12 segment should only be sent to, or received by, the utility when the commodity indicated in the LIN segment is Electric but the request pertains only to the un-metered portion of the electric service on the account. This element should not be sent when the LIN request pertains to all electric service on the account.			
			U	Un-Metered Service		

Segment: **REF** **Reference Identification (Previous Utility Account Number)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Request: Not Used
Accept Responses: Conditional

Where a utility changes an existing customer's account number as a business process (and as noted in its Utility Maintained EDI Guide), this segment is required in Accept Response transactions when the utility assigned account number for the customer has changed in the last 90 days.

REF~45~9194132485705971

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier** 45 Old Account Number REF02 is the Utility's previous account number for the customer.	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Previous Utility account number for the customer. This segment would be sent, for example, when a change in meter reading routes results in a change in the account number assigned to the customer.	**X AN 1/30**

Segment: **REF** **Reference Identification (Utility Account Number for ESCO)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Request: Conditional
Response: Conditional

This segment is used to communicate an account number assigned by the Utility to the ESCO and may be sent with the mutual agreement of the parties.

REF~AJ~3134597

Used by ConEdison Orange and Rockland, and Central Hudson. Obtain the value to be sent from the utility.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			AJ	Accounts Receivable Customer Account		
				REF02 contains the Utility assigned account number for the ESCO		
Must Use	**REF02**	**127**	**Reference Identification**		**X**	**AN 1/30**
			Utility account number for the ESCO			

Segment: **REF** **Reference Identification (Meter Cycle Code)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Request: Not Used
Enrollment Accept Response: Conditional
Other Responses: Not Used

This segment is used to communicate when meter reads are scheduled for the account and must be used when the value of the Meter Cycle Code differs from the value of the Bill Cycle Code. It may also be provided at the utility's option (as noted in its Utility Maintained EDI Guide) when the Meter Cycle Code and the Bill Cycle Code are the same.

REF~65~A12
REF~65~18
REF~65~21~MON

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			65 Total Order Cycle Number		
			Meter owner's meter reading cycle number.		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			A 2 or 3 character alphanumeric code indicating when meter reads are scheduled for this account. This code would be used to obtain meter reading schedule information from a Utility's web site.		
Cond.	**REF03**	**352**	**Description**	**O**	**AN 1/80**
			This element must be sent in an accept response to an enrollment request when the data sent in REF02 is insufficient to describe both when and how frequently the meters on the account being enrolled are scheduled to be read. REF03 contains a code indicating the usage period that will be reported when regularly scheduled usage information is sent in an 867 transaction.		
			BIM Bimonthly		
			MON Monthly		
			QTR Quarterly		

Segment: **REF** **Reference Identification (Bill Cycle Code)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C05005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Request: Not Used
Enrollment Accept Response: Required
Other Responses: Not Used

REF~BF~18
REF~BF~17~MON

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			BF	Billing Center Identification	
				Billing cycle. Cycle number indicating when this customer is scheduled for billing.	
Must Use	**REF02**	**127**	**Reference Identification**		**X AN 1/30**
			A 2 digit code indicating when a scheduled bill is prepared for the customer. Some companies may bill on a cycle other than the read cycle. In this case this code could be used to retrieve the scheduled billing date from the utility's web site.		
Cond.	**REF03**	**352**	**Description**		**O AN 1/80**
			When present, indicates the frequency with which the account is billed by the utility. This element should be sent in an accept response to an enrollment request when information regarding the bill cycle codes on the web site or the data sent in REF02 is insufficient to describe both when and how frequently the account being enrolled is scheduled to be billed.		
			BIM	Bimonthly	
			MON	Monthly	
			QTR	Quarterly	

Segment: **REF** **Reference Identification (Bill Presenter)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Enrollment Requests: Required
Enrollment Accept Responses: Required
Other Requests/Responses: Not Used

This segment is sent to identify which entity will present the bill to the customer. It must be present in Enrollment Request and Enrollment Accept Response transactions.
REF~BLT~DUAL
REF~BLT~LDC
REF~BLT~ESP
REF~BLT~ESP~AGENT

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			BLT	Billing Type	
				Data in the REF02 and 03 elements in this segment in conjunction with data transmitted in the REF*PC segment (Bill Calculator) describes the customer's bill option e.g. a consolidated bill issued by the Utility, a consolidated bill issued by the ESCO or separate bills presented by each party.	
Must Use	**REF02**	**127**	**Reference Identification**		**X AN 1/30**
			DUAL	Each Party Presents a separate Bill	
			ESP	ESCO is the consolidated Bill Presenter	
				This code should be used when the ESCO will be the bill presenter under ESCO Combined Billing.	
			LDC	Utility is the consolidated Bill Presenter	
Cond.	**REF03**	**352**	**Description**		**X AN 1/80**
			Where supported by a utility as described in its Utility Maintained EDI Guide, a literal should be present in the REF03 when REF02 = ESP as applicable to the account being enrolled.		

Segment: **REF** **Reference Identification (Bill Calculator)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Enrollment Requests: Required
Enrollment Accept Responses: Required
Other Requests/Responses: Not Used

This segment is used to identify which entity will calculate the billed charges that will appear on the customer's bill. This segment in conjunction with the REF*BLT segment is used to designate the customer's bill option.
The segment is required on Enrollment Requests and Enrollment Accept Response transactions.

REF~PC~DUAL
REF~PC~LDC

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			PC	Production Code		
				Indicates who will calculate billed charges.		
Must Use	**REF02**	**127**	**Reference Identification**		**X**	**AN 1/30**
			DUAL	Each Party Calculates its own charges.		
				DUAL applies when: Each party presents their own bill (Used when REF*BLT segment contains DUAL) or the ESCO utilizes ESCO Combined Billing (ECB) (Used when REF*BLT segment contains ESP), or the BILL READY method is used for consolidated billing, e.g. Utility sends an 810 (or 810SR under ECB) transaction to the ESCO with bill ready utility charges fully calculated (Used when REF~BLT segment contains ESP) OR ESCO sends an 810 transaction to the Utility with bill ready ESCO charges fully calculated (Used when REF~BLT segment contains LDC).		
			LDC	The Utility Calculates the ESCO Charges		
				RATE READY: The ESCO supplies a rate code or price to the Utility and the Utility calculates the ESCO's portion of the consolidated bill.		

Segment: **REF** **Reference Identification (Current Budget Billing Status)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Enrollment Request: Conditional
Enrollment Accept Response: Conditional
Other Requests/Responses: Not Used

This segment must be sent in Enrollment Request transactions (except for Single Retailer) when the ESCO expects the customer being enrolled to be on budget billing for the ESCO charges. Must be present in an Enrollment Accept Response transaction when the customer being enrolled is on budget billing for the Utility charges.

REF~NR~Y

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			NR	Progress Payment Number	
				The enrolling customer is on budget billing.	
Must Use	**REF02**	**127**	**Reference Identification**		**X AN 1/30**
			Y	The enrolling customer is, or will be, on budget billing.	
				On an Enrollment Request, this segment indicates the enrolling customer will be on budget billing for the ESCO charges. On an Accept Response, this segment indicates the customer being enrolled is currently on budget billing for Utility charges.	

Segment: **REF** **Reference Identification (ESCO Late Fees)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Request: Conditional
Responses: Conditional

This segment is used to indicate whether or not the billing party should assess late fees, at 1.5%, on ESCO past due charges. Where required by the utility, this segment must be sent in Request transactions transmitted to the utility, when the customer's bill option is Utility Rate Ready consolidated billing and the payment processing method is Pay-As-You-Get-Paid.
A utility may return this segment in an Accept Response transaction if present in the Request transaction.

REF~LF~N2
REF~LF~Y2

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			LF	Assembly Line Feed Location	
				ESCO Late Fee Indicator Late fees will/will not be assessed by the Billing Party on ESCO past due amounts for the account being enrolled.	
Must Use	**REF02**	**127**	**Reference Identification**		**X AN 1/30**
			N2	Late fees should NOT be assessed by the Billing Party on ESCO past due amounts.	
			Y2	Late fees should be assessed by the Billing Party on ESCO past due amounts.	

Segment: **REF** **Reference Identification (Partial Participation Portion)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Enrollment Request: Conditional.
Enrollment Accept Response: Conditional
Other Responses: Not Used

This segment must be present in an Enrollment Request transaction to indicate the portion of load to be served by the ESCO when the customer being enrolled is a partial requirements customer. This segment will be returned in an Enrollment Accept Response to confirm the portion of load to be served by the ESCO.

REF~PGC~B
REF~PGC~T

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			PGC	Packing Group Code	
				Partial Participation Portion Data in REF02 indicates what portion of the customer's load the ESCO will supply when the customer is a partial requirements customer of the Utility due to their participation in economic growth incentive programs.	
Must Use	**REF02**	**127**	**Reference Identification**		**X AN 1/30**
			B	Base Only	
			T	Total Load	

Segment: **REF** **Reference Identification (Customer on Life Support)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Enrollment Requests: Conditional
Enrollment Accept Response: Optional
Other Requests/Responses: Not Used

This segment must be present in an Enrollment Request transaction for the Single Retailer Model. This segment may be sent in an Enrollment Accept Response at the discretion of the Utility.

REF~SU~Y
REF~SU~N
REF~SU~I

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			SU	Special Processing Code		
				Life support equipment verification. Customer requires life support equipment.		
Must Use	**REF02**	**127**	**Reference Identification**		**X**	**AN 1/30**
			I	Investigating whether life support is required		
			N	Life Support Not Required		
			Y	Life Support Required		

Segment: **REF** **Reference Identification (Gas Pool ID)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Enrollment Request: Conditional.
Enrollment Accept Response: Conditional
Other Requests/Responses: Not Used

GAS ONLY. This segment must be sent when the Enrollment Request is for Gas service and the ESCO has been assigned more than one Gas Pool ID for their customers. It will be returned in the Accept Response if sent on the Request.

REF~VI~211234567

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			VI	Pool Number		
				Gas Pool IDs are assigned to a gas marketer by the Utility and are used to define a unique sub-grouping of customers.		
Must Use	**REF02**	**127**	**Reference Identification**		**X**	**AN 1/30**
			Gas Pool ID associated with the customer being enrolled.			

Segment: **REF** **Reference Identification (Gas Capacity Assignment/Obligation)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Enrollment Accept Response: Conditional

GAS ONLY. This segment is provided to the ESCO by the Utility to convey intended or obligated pipeline capacity requirements necessary to meet the needs of the end use customer as described in its Utility Maintained EDI Guide. Will be returned on an Accept Response when supported by the Utility.

REF~GC~Y
REF~GC~N

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			GC	Government Contract Number	
				Gas Capacity Assignment/Obligation	
Must Use	**REF02**	**127**	**Reference Identification**		**X AN 1/30**
			N	No: ESCO elects must arrange for capacity for the customer being enrolled	
			Y	Yes: ESCO wants must take the Utility release or assignment of its pipeline capacity for the customer being enrolled	

Segment: **REF** **Reference Identification (Gas Supply Service Option)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes:

Enrollment Request: Conditional
Enrollment Accept Response: Conditional
Other Requests/Responses: Not Used

GAS ONLY. Where required by the utility, must be present in all Gas Enrollment Requests sent to the utility to indicate the type of service option selected for the customer being enrolled.
May be sent in other service territories at the discretion of the utility.
Will be returned in the Enrollment Accept Response when present on the Request to confirm ESCO supply option.

REF~GS~B
REF~GS~B~MONTHLY
REF~GS~S

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			GS	General Services Administration Regulations (GSAR)	
				Gas Supply Option The value in REF02 indicates how an ESCO intends to service their gas supply obligation for the customer being enrolled.	
Must Use	**REF02**	**127**	**Reference Identification**		**X AN 1/30**
			B	Balancing Option	
				ESCO must deliver gas to the Company on behalf of its customer, with the Company redelivering the gas to the customer on an as needed basis.	
			S	Storage Option	
				Under the Functional Storage Service Option the ESCO must deliver gas to the Company on behalf of its customer in excess of the Customer's average daily usage or actual needs from April through October, with the Company redelivering that excess gas from November through March, along with additional gas delivered by the ESCO during those months.	
Cond.	**REF03**	**352**	**Description**		**X AN 1/80**
			When REF02 contains a "B" for balancing service, a REF03 must be sent to qualify the balancing service option. Examples: Daily; Monthly		

Segment: **REF** **Reference Identification (Human Needs Customer)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Enrollment Request: Conditional
Other Requests/Response: Not Used

Where required by the utility in its Utility Maintained EDI Guide, this segment must be present in Requests sent to the utility when the commodity is gas and the non-residential customer being enrolled meets the definition of a Human Needs Customer as found in the utility's tariff. Generally, Human Needs Customers are defined as accounts that rely solely on gas for heating that are residential in character such as facilities which house patients or residents on an overnight basis (hospitals or prisons) or critical care accounts (nursing or other acute care facilities).
This segment may be provided in Gas Enrollment Requests sent to other utilities with the mutual agreement of the trading partners.

ALC~Y
ALC~N

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			ALC	Agency Location Code	
Must Use	**REF02**	**127**	**Reference Identification**		**X AN 1/30**
			N	This customer is NOT a human needs customer	
			Y	This customer is a human needs customer	

Segment: **REF** **Reference Identification (ISO Location Based Marginal Pricing Zones)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes:

Enrollment Requests: Not Used
Enrollment Accept Responses: Conditional
Other Requests/Responses: Not Used

ELECTRIC ONLY: This segment must be present on all Accept Responses for Electric enrollments.

REF~SPL~A

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			SPL	Standard Point Location Code (SPLC)	
				REF02 contains the ISO Assigned code for New York Location Based Pricing Zones when service type is EL. This is the pricing zone for the account being enrolled.	
Must Use	**REF02**	**127**	**Reference Identification**		**X AN 1/30**
			A code assigned by the ISO that represents a location based marginal pricing zone. Valid Values for REF02:		
			A	WEST	
			B	GENESEE	
			C	CENTRL	
			D	NORTH	
			E	MHK VALLEY	
			F	CAPITL	
			G	HUD VALLEY	
			H	MILL WD	
			I	DUNWOD	
			J	N.Y.C.	
			K	LONGIL	
			M	HQ	
			O	OH	
			P	PJM	

Segment: **REF** **Reference Identification (Portion Taxed Residential)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes:

Enrollment Requests: Conditional
Enrollment Accept Responses: Optional
Other Requests/Responses: Not Used

Where required by the utility in its Utility Maintained EDI Guide, this segment must be sent on Requests to the utility when (1) the bill option requested is Utility rate ready consolidated billing, and (2) the account being enrolled is a non-residential account but a portion of the account is taxed at a residential rate. This segment may be returned by the Utility in an Accept Response.

REF~RP~20
REF~RP~25

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			RP	Repetitive Pattern Code		
				Portion Taxed Residential The value sent in REF02 indicates the portion of the non-residential account being enrolled that is taxed at a residential rate.		
Must Use	**REF02**	**127**	**Reference Identification**		**X**	**AN 1/30**
			The following codes are to be used:			
			20	- 10 % Residential Use		
			21	- 20% Residential Use		
			22	- 30% Residential Use		
			23	- 40% Residential Use		
			24	- 50% Residential Use		
			25	- 60% Residential Use		
			26	- 70% Residential Use		
			27	- Residential Use is 75% or greater		

Segment: **REF** **Reference Identification (Account Settlement Indicator)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Enrollment Requests: Not Used
Enrollment Accept Responses: Required, for electric accounts only

This indicator reflects how the usage is settled with NYISO, not necessarily how the usage is metered.

REF~TDT~C

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			TDT Technical Documentation Type	
			Account Settlement Indicator	
Must Use	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			The following codes are to be used:	
			C Class Load Shape	
			H Hourly	
			M Mixed Account is settled with the NYISO with both Class Shape and Hourly data.	

Segment: **REF** **Reference Identification (NYPA Discount Indicator)**
Position: 030
Loop: LIN Optional
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Enrollment Requests: Not Used
Enrollment Accept Responses: Required for Electric accounts, if available in the utility's system and the utility does not otherwise provide the indicator through a non-EDI means.

REF~YP~Y

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			YP	Selling Arrangement	
				NYPA Discount Indictor. The customer receives any special incentives from the New York Power Authority.	
Must Use	**REF02**	**127**	**Reference Identification**		**X AN 1/30**
			The following codes are to be used:		
			N	No, the customer does not have a NYPA Discount	
			Y	Yes, the customer does have a NYPA Discount	

Segment: **REF** **Reference Identification (Utility Discount Indicator)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C06006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Enrollment Requests: Not Used
Enrollment Accept Responses: Required for non-residential accounts

Required for non-residential accounts where the customer receives a commodity discount from the utility or a delivery discount that is dependent upon purchase of commodity from the utility. Further, the indicator should be set to "N" in cases where all non-residential customers in a rate class or service receive the same discount or when the delivery discount is portable, i.e. it applies whether the customer purchases commodity from the ESCO or the utility.

REF~SG~N

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			SG	Savings	
				Utility Discounts/Incentive Rate	
Must Use	**REF02**	**127**	**Reference Identification**		**X AN 1/30**
			The following codes are to be used:		
			N	No, there are not Utility Discounts/Incentive Rates	
			Y	Yes, there are Utility Discounts/Incentive Rates	

Segment: **REF** **Reference Identification (Industrial Classification Code)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Enrollment Request: Not Used
Enrollment Accept Response: Conditional

Required if available in utility's system

REF~IJ~123456~NAICS
REF~IJ~1234~SIC

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Cond.	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			IJ	Standard Industry Classification (SIC) Code		
				Standard Industry Classification (SIC) Code, or North American Industry Classification System (NAICS) Code		
Must Use	**REF02**	**127**	**Reference Identification**		**X**	**AN 1/30**
			SIC or NAICS Code as stored in the Utility's system			
Must Use	**REF03**	**352**	**Description**		**X**	**AN 1/80**
			NAICS	Value contained in REF02 is an NAICS code		
			SIC	Value contained in REF02 is an SIC code		

Segment: **REF** **Reference Identification (Utility Tax Exempt Status)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Enrollment Requests: Not Used
Enrollment Accept Responses: Required

The Utility Tax Exempt Status signifies the existence of exemptions and/or certifications, if any, held by the utility, that are used to bill the customer for utility services. The indicator is informational only; the utility's exemption is not transferable to the ESCO to bill the customer for ESCO services. The ESCO should not rely upon the utility's information for billing purposes and should contact the customer to obtain necessary information consistent with the requirements of the New York State Department of Taxation & Finance and any applicable laws.

REF~TX~Y

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			TX	Tax Exempt Number	
				Indicates the Utility's Tax Exemption Status at the time the transaction is created.	
Must Use	**REF02**	**127**	**Reference Identification**		**X AN 1/30**
			The following codes are to be used:		
			N	No, the customer is fully taxed for distribution charges at the time the transaction is created.	
			Y	Yes, customer has some level of tax exemption for distribution charges at the time the transaction is created.	

Segment: **REF** **Reference Identification (Interval Usage Option)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Utility Request: Not Used
ESCO Response: Not Used

ESCO Request: Optional
Utility Response: Conditional

Used by ESCO to specify the preference to receive the 867IU for a customer with an interval metered account. This segment may be returned in an Enrollment Accept Response from the Utility when sent in the request by the ESCO.

REF~IU~SUMMARY
REF~IU~DETAIL
REF~IU~METERDETAIL

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			IU	Barge Permit Number		
				Interval Usage Option Option used by ESCO to request for Interval Usage 867IU transaction instead of the default Monthly Usage, 867MU transaction at either the Account Level or at Meter Level for a customer with an interval metered account. The default usage report is the 867MU transaction. If this segment REF~IU is not on the 814E request the Utility will provide the 867MU		
Must Use	**REF02**	**127**	**Reference Identification**		**X**	**AN 1/30**
			The following codes are to be used:			
			SUMMARY	Monthly Billed Usage		
			DETAIL	ESCO Request to receive Interval Usage at the customer account level for a customer with Interval Meters.		
			METERDETAIL	ESCO Request to receive Interval Meter Detail.		

Segment: **REF** **Reference Identification (Public Aggregator)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Request: Conditional
Enrollment Accept Response: Not Used

REF~PG~123456
REF~PG~ABCDEF

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Identifies a public or private group that aggregates customers and contracts load on their behalf.	
			PG Product Group	
			Aggregator Code	
Must Use	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			Aggregator Code in format specified by utility in their Utility Maintained EDI Guide.	

Segment: **REF** **Reference Identification (APP Status)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Request: Not Used
Enrollment Accept Response: Conditional

If supported by a utility as specified in its Utility Maintained EDI Guide, informs ESCO whether the utility's business systems identifies the customer as currently eligible for APP benefits. Required for customers billed under ESCO Combined Billing using Single Retailer transactions.

REF~5E~Y

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			Identifies customer APP (Assistance Program Particpants) status.		
			5E	Consumer Identifier	
				APP Status	
Must Use	**REF02**	**127**	**Reference Identification**		**X AN 1/30**
			N	No, the customer is not currently eligible for APP benefits.	
			Y	Yes, the customer is currently eligible for APP benefits.	

Segment: **REF** **Reference Identification (Special Meter Configuration)**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Utility Request: Optional
ESCO Response: Not Used

ESCO Request: Not Used
Utility Response: Not Used

If supported by a utility, as specified in its Utility Maintained EDI Guide, used to notify the ESCO that the account has generation.

REF~KY~NETMETER

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			KY	Site Specific Procedures, Terms, and Conditions Special Meter Configuration		
Must Use	**REF02**	**127**	**Reference Identification**		**X**	**AN 1/30**
			The following codes are to be used:			
			NETMETER	Account has generation		

Segment: **DTM** **Date/Time Reference (Assigned Service Start Date)**
Position: 040
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Notes:

Requests: Not used
Enrollment Accept Responses: Required
Other Requests/Responses: Not Used

DTM~150~20020313

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			150 Service Period Start		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			The Utility will return the effective start date for an enrollment in their accept response in the form CCYYMMDD.		

Segment: **DTM** **Date/Time Reference (ICAP Effective Dates)**
Position: 040
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Request: Not Used
Enrollment Accept Response: Conditional
Other Responses: Not Used

Required for Electric Accounts Only. Data must be sent, if available.

DTM~AB2~~~~RD8~20140601-20150531

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**DTM01**	**374**	**Date/Time Qualifier**		**M**	**ID 3/3**
			AB2	Time Period		
				ICAP Tag Effective Dates		
Must Use	**DTM05**	**1250**	**Date Time Period Format Qualifier**		**X**	**ID 2/3**
			RD8	Range of Dates Expressed in Format CCYYMMDD-CCYYMMDD		
Must Use	**DTM06**	**1251**	**Date Time Period**		**X**	**AN 1/35**
			Period expressed in the format CCYYMMDD-CCYYMMDD			

Segment: **DTM** **Date/Time Reference (Future ICAP Effective Dates)**
Position: 040
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes:
Request: Not Used
Enrollment Accept Response: Conditional
Other Responses: Not Used

Required for Electric Accounts Only. Data must be sent, if available.

DTM~AB4~~~~RD8~20140601-20150531

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**DTM01**	**374**	**Date/Time Qualifier**		**M**	**ID 3/3**
			AB4	Sales Period		
				Future ICAP Tag Effective Dates		
Must Use	**DTM05**	**1250**	**Date Time Period Format Qualifier**		**X**	**ID 2/3**
			RD8	Range of Dates Expressed in Format CCYYMMDD-CCYYMMDD		
Must Use	**DTM06**	**1251**	**Date Time Period**		**X**	**AN 1/35**
			Period expressed in the format CCYYMMDD-CCYYMMDD			

Segment: **AMT** **Monetary Amount (ESCO Budget Plan Installment Amount)**
Position: 060
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Notes: Request: Conditional
Responses: Conditional

Where required by the utility, this segment must be sent in a Request transaction to communicate the monthly budget plan installment amount to be displayed on the ESCOs portion of the consolidated bill when the Request is sent to the utility, the customer's bill option is Utility Rate Ready and the REF*NR segment indicates that the customer is on a budget plan for ESCO charges. This segment may be returned by the utility in the Response transaction if present in the Request.

AMT~B5~100
AMT~B5~20

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**AMT01**	**522**	**Amount Qualifier Code**		**M ID 1/3**
			B5	Budgeted	
				ESCO Budget Plan Installment Amount The amount in AMT02 is the budget plan installment amount the customer is expected to pay each month for the period covered by the customer's budget plan with the ESCO.	
Mand.	**AMT02**	**782**	**Monetary Amount**		**M R 1/18**
			This element is a real number. Real numbers are assumed to be positive unless preceded by a minus sign. In this instance, budget installment amounts are whole numbers and will always be positive. See Front Matter notes regarding syntax for real number elements.		

Segment: **AMT** **Monetary Amount (ESCO Budget Plan Balance)**
Position: 060
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Notes:

Enrollment Requests: Conditional
Other Requests: Not Used
Responses: Not Used

Where required by the utility, this segment should be sent in Enrollment Request transactions sent to the utility to communicate the balance on a pre-existing budget plan for ESCO charges when the customer's bill option is changing to Utility Rate Ready consolidated billing, the REF*NR indicates the customer is on budget billing for ESCO charges and the customer has a budget plan balance for a period prior to the current enrollment.

AMT~BD~-149.25 (The balance is a credit of $149.25)
AMT~BD~86.01 (The balance is a debit of $86.01)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**AMT01**	**522**	**Amount Qualifier Code**	**M ID 1/3**
			BD Balance Due ESCO Budget Plan Balance The amount in AMT02 is the balance on a budget plan for the customer that pre-dates the current enrollment.	
Mand.	**AMT02**	**782**	**Monetary Amount** This element is a real number and is assumed to be a positive number unless preceded by a (-) minus sign. Real numbers do not have an implied decimal point; a decimal point must be sent when decimal precision is necessary.	**M R 1/18**

Segment: **AMT** **Monetary Amount (Tax Exemption Percent)**
Position: 060
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Notes: Enrollment Requests: Conditional.
Other Requests/Responses: Not Used

This segment is used to indicate that the ESCOs service is exempt from tax. A tax exemption certificate must be obtained from the customer and retained by the ESCO to support this designation. Unless a utility provides another means to implement the customer's sales tax exemption in its Utility Maintained EDI Guide, this segment must be sent on an Enrollment Request when (1) the billing option is Utility Rate Ready consolidated billing and the ESCOs service is tax exempt. This segment is not applicable to the Single Retailer Model.

AMT~DP~1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**AMT01**	**522**	**Amount Qualifier Code** DP Exemption Tax Exempt Percent: This code is used when the ESCOs service is exempt from tax. See AMT02 for valid values.	**M ID 1/3**
Mand.	**AMT02**	**782**	**Monetary Amount** For percentage values, the whole number "1" will represent 100 percent; decimal numbers less than "1" represent percentages.	**M R 1/18**

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Commented [SR1]: This causes confusion for tax exemption

Segment: **AMT** **Monetary Amount (Commodity Price)**
Position: 060
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Notes:

Enrollment Requests: Conditional.
Enrollment Accept Responses: Conditional
Other Requests/Responses: Not Used

This segment must be sent on an Enrollment Request when (1) the bill option requested is Utility Rate Ready consolidated billing AND (2) the ESCO intends to charge its customer a fixed unit price for all metered consumption. This segment will be returned on an Accept Response if sent on the Request.
When an Enrollment Accept Response transaction is initiated by the utility but there is no corresponding Request transaction, this segment and/or the AMT*FW segment in the Response may contain "0" or a dummy number assigned by the utility (in these instances a Change transaction may be sent by the ESCO to provide the actual commodity price, where applicable).

AMT~RJ~.015
AMT~RJ~.05
AMT~RJ~0

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**AMT01**	**522**	**Amount Qualifier Code** RJ Rate Amount AMT02 contains the ESCO commodity price per unit of consumption that should be used to calculate the customer's billed charges expressed as a monetary amount. This amount will apply to consumption for all service points for the account being enrolled.	**M ID 1/3**
Mand.	**AMT02**	**782**	**Monetary Amount** This element is a real number. See Front Matter Notes regarding the syntax for real numbers.	**M R 1/18**

Segment: **AMT** **Monetary Amount (ESCO Fixed Charge)**
Position: 060
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Notes: Request: Conditional
Response: Conditional

This segment is sent by the ESCO when the customer's bill option is Utility Rate Ready consolidated billing and the ESCO wants to bill the customer for a fixed charge amount in addition to, or instead of, a variable unit price for a commodity. At the discretion of the Utility, this segment may be echoed back in the Enrollment Response transaction. When an Enrollment Accept Response transaction is initiated by the utility but there is no corresponding Request transaction, this segment and/or the AMT*RJ segment in the Response may contain "0" or a dummy number assigned by the utility (in these instances a Change transaction may be sent by the ESCO to provide the actual commodity price, where applicable).

AMT~FW~2.00
AMT~FW~10
AMT~FW~0

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**AMT01**	**522**	**Amount Qualifier Code**		**M ID 1/3**
			FW	Flat Fee Paid Current Month	
				AMT02 contains the fixed charge amount that should be billed to the ESCO's customers expressed as a monetary amount.	
Mand.	**AMT02**	**782**	**Monetary Amount**		**M R 1/18**
			This element is a real number. See Front Matter Notes regarding the syntax for real numbers.		

Segment: **AMT** **Monetary Amount [Customer's Tax Rate for ESCO Charges - 57**
Position: 060
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Notes: Enrollment Requests: Conditional
Enrollment Accept Responses: Conditional
Other Requests/Responses: Not Used

Where supported by a utility, this segment may be sent in a Request when the bill option for the customer being enrolled is Utility Rate Ready consolidated billing and the utility requires the ESCO to provide the tax rate via EDI at the time of enrollment. This segment may be returned on an Accept Response if sent in the Request.

In its Utility Maintained EDI Guide, the utility will indicate:

- If it supports the AMT*9M segment and if so, whether and how it is supported in conjunction with the AMT*9N and/or REF*RP segments;
- If the AMT*9N and REF*RP segments are both supported by the utility, a portion of the service is taxed at a residential rate (see REF*RP segment), the residential tax rate should be provided in this AMT segment and the commercial tax rate applicable to the remaining portion of the service should be transmitted in the AMT*9N segment.
- Whether in lieu of supporting the AMT*9N and/or REF*RP segments, the utility supports use of a composite tax rate to compute the applicable tax amount associated with the ESCO charges.

AMT~9M~.0325

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**AMT01**	**522**	**Amount Qualifier Code**		**M ID 1/3**
			9M	Tax Adjustments	
				The rate in AMT02 is the tax rate that should be used by the utility to calculate tax amounts associated with the ESCOs charges when the customer's bill option is Utility Rate Ready consolidated billing.	
Mand.	**AMT02**	**782**	**Monetary Amount**		**M R 1/18**
			This element is a real number. See Front Matter Notes regarding the syntax for real numbers.		

Segment: **AMT** **Monetary Amount [Customer's Tax Rate for ESCO Charges - 2)**
Position: 060
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Notes:

Enrollment Requests: Conditional
Enrollment Accept Responses: Conditional
Other Requests/Responses: Not Used

Where supported by a utility, this segment is sent in a Request to provide the commercial tax rate applicable to a portion of the customer's service when (1) the bill option for the customer being enrolled is Utility Rate Ready consolidated billing, and (2) the utility requires the ESCO to provide the tax rate via EDI at the time of enrollment. In its Utility Maintained EDI Guide, the utility will indicate:

- If it supports the AMT*9N segment and if so, whether and how it is supported in conjunction with the AMT*9M and/or REF*RP segments;
- If the AMT*9N and REF*RP segments are both supported by the utility a residential tax rate applies to a portion of the customer's service (see REF*RP) and the balance is taxed at a commercial rate;
- Whether in lieu of supporting the AMT*9M and/or REF*RP segments, the utility supports use of a composite tax rate to compute the applicable tax amount associated with the ESCO charges.

This segment may be returned on an Accept Response if sent in the Request.

AMT~9N~.045

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**AMT01**	**522**	**Amount Qualifier Code**		**M ID 1/3**
			9N	Tax Balance	
			The rate in AMT02 is the tax rate that should be used by the utility to calculate tax amounts associated with the ESCOs charges applicable to the portion of the customer's service taxed at a commercial rate.		
Mand.	**AMT02**	**782**	**Monetary Amount**		**M R 1/18**
			This element is a real number. See Front Matter Notes regarding the syntax for real numbers.		

Segment: **AMT** **Monetary Amount (ICAP)**
Position: 060
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes: Request: Not Used
Enrollment Accept Response: Conditional
Other Responses: Not Used

Required for Electric accounts only. Data must be sent, if available, to report the customer's peak load contribution for Electric Service.

AMT03 is a general indicator; i.e. it is not tied to any specific program

AMT~KZ~.015
AMT~KZ~0.15~C

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**AMT01**	**522**	**Amount Qualifier Code**		**M**	**ID 1/3**
			KZ	Corrective Action Requests - Written		
				ICAP Tag		
Mand.	**AMT02**	**782**	**Monetary Amount**		**M**	**R 1/18**
			ICAP Tag			
	AMT03	**478**	**Credit/Debit Flag Code**		**O**	**ID 1/1**
			C	Credit		
				Yes, there is a Special Program Adjustment Indicator related to the ICAP Tag. For example, a NYPA adjustment has been applied.		
			D	Debit		
				No, there is no Special Program Adjustment Indicator related to the ICAP Tag.		

Segment: **AMT** **Monetary Amount (Future ICAP)**
Position: 060
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes: Request: Not Used
Enrollment Accept Response: Conditional
Other Responses: Not Used

Sent for Electric accounts only, if available, to report the customer's future peak load contribution for Electric Service.

AMT03 is a general indicator; i.e. it is not tied to any specific program.

AMT~8B~.015
AMT~8B~.015~C

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**AMT01**	**522**	**Amount Qualifier Code**		**M**	**ID 1/3**
			8B	Provisions for Future Purchase Future ICAP Tag		
Mand.	**AMT02**	**782**	**Monetary Amount** ICAP Tag		**M**	**R 1/18**
	AMT03	**478**	**Credit/Debit Flag Code**		**O**	**ID 1/1**
			C	Credit Yes, there is a Special Program Adjustment Indicator related to the Future ICAP Tag. For example, a NYPA adjustment will be applied.		
			D	Debit No, there is no Special Program Adjustment Indicator related to the Future ICAP Tag.		

Segment: **NM1** **Metered or Un-Metered Service Points**
Position: 080
Loop: NM1 Optional (Dependent)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To supply the full name of an individual or organizational entity
Syntax Notes: **1** If either NM108 or NM109 is present, then the other is required.
2 If NM111 is present, then NM110 is required.
Semantic Notes: **1** NM102 qualifies NM103.
Notes:

Enrollment Requests: Conditional.
Enrollment Accept Responses: Required
Other Requests/Responses: Not Used

This segment must be sent in an Enrollment Request when the bill option is Utility Rate Ready consolidated billing and the ESCO charges will be calculated based on Rate Codes (see REF~RB) rather than a commodity price (see REF~RJ).

This segment is required in an Accept Response to an enrollment request to identify each metered service delivery point and/or to describe un-metered services on the account being enrolled.

NM1~MQ~3~~~~~~32~A1234567 Refers to a specific Meter
NM1~MQ~3~~~~~~93~UNMETERED Refers to un-metered services
NM1~MQ~3~~~~~~93~ALL Refers to all service points

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**NM101**	**98**	**Entity Identifier Code**		**M ID 2/3**
			MQ	Metering Location	
				Indicates that this NM1 loop contains service delivery point or meter related information.	
Mand.	**NM102**	**1065**	**Entity Type Qualifier**		**M ID 1/1**
			3	Unknown	
				NM102 is an X12 required element.	
Must Use	**NM108**	**66**	**Identification Code Qualifier**		**X ID 1/2**
			32	Assigned by Property Operator	
				Use when NM109 will contain a meter number.	
			93	Code assigned by the organization originating the transaction set	
				Use when NM109 will contain the literal "UNMETERED" or "ALL".	
Must Use	**NM109**	**67**	**Identification Code**		**X AN 2/80**

When NM108 = 32, NM109 must contain a meter number
When NM108 = 93, NM109 will contain EITHER the literal "UNMETERED" for all un-metered service on the account OR the literal "ALL" for all service delivery points on the account.

All active meters and/or un-metered services on an account will be enrolled and will be included on an Accept Response to an Enrollment request. It may be necessary to send multiple NM1 segments on an Accept Response to describe each metered service delivery point and any un-metered service points on the account being enrolled.

Segment: **REF** **Reference Identification (Utility Rate Service Class)**
Position: 130
Loop: NM1 Optional (Dependent)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Enrollment Accept Responses: Required
Other Requests/Responses: Not Used

REF~NH~1B
REF~NH~931

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			NH	Rate Card Number	
				REF02 contains the Utility specific rate code that references the service class and rates applicable to the service delivery point(s) identified in the NM109 element.	
Must Use	**REF02**	**127**	**Reference Identification**		**X AN 1/30**
			Utility Rate code as found in the tariff. (This code can be used to retrieve rates from a utility's web site.)		

Segment: **REF** **Reference Identification (Rate Sub Class)**
Position: 130
Loop: NM1 Optional (Dependent)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Enrollment Accept Responses: Conditional
Other Requests/Responses: Not Used

If a rate subclass is applicable to the account being enrolled, this segment must be sent in Enrollment Accept Response transactions.

REF~PR~0151
REF~PR~NRSVD

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			PR	Price Quote Number	
				Utility Rate Subclass - Used to provide further classification of a rate.	
Must Use	**REF02**	**127**	**Reference Identification**		**X AN 1/30**
			This segment provides for further description of the Utility tariff requirements specified in the REFNH segment.		

Segment: **REF** **Reference Identification (Utility Load Profile Group Code)**
Position: 130
Loop: NM1 Optional (Dependent)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Enrollment Accept Responses: Conditional
Other Requests/Responses: Not Used

ELECTRIC ONLY: This segment must be returned in an Accept Response to an enrollment request.

REF~LO~RNH
REF~LO~SC1B

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier** LO Load Planning Number REF02 is Utility assigned electric load profile code.	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Utility assigned load profile code. Load profile code definitions are provided on the Utility web site.	**X AN 1/30**

Segment: **REF** **Reference Identification (Measurement Type and Reporting Interval)**
Position: 130
Loop: NM1 Optional (Dependent)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Enrollment Requests: Conditional.
Enrollment Accept Responses: Required
Other Requests/Responses: Not Used.

This segment is sent to describe the measurement types and reporting intervals associated with the service delivery point(s) identified in the NM109 segment. It may be sent on an Enrollment Request when the bill option is Utility Rate Ready consolidated billing and the ESCO wants to associate different rate codes (see REF~RB) with different measurement types and/or reporting intervals. When an Enrollment Request is being accepted, this segment is used by the Utility to describe the type of consumption and reporting interval for each service delivery point(s) identified in the NM109 segment for the account being enrolled.

REF~MT~KHMON
REF~MT~TDMON
REF~MT~COMBO
REF~MT~KH030
REF~MT~KHTOU

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			MT	Meter Ticket Number	
				Meter type. Used to identify the type of consumption measured by a meter and the interval between measurements or the type of consumption and reporting interval applicable to the un-metered service delivery points on the account.	

Must Use	REF02	127	Reference Identification	X	AN 1/30

The type and reporting interval for consumption measurements are described in a five-character field. The first two characters are used to describe the type of consumption. The last three characters describe the reporting interval.

The literal "COMBO" is sent in the REF02 element of this segment when the service delivery point(s) identified in the NM109 are capable of providing different measurement types AND/OR measurements for more than one time period in a day.
When the REF~MT contains "COMBO" multiple REF~TU segments may be necessary to describe the types of consumption being measured for the service delivery point(s) identified in the NM109 element. A REF~TU segment must also be sent, even when there is only one type of consumption being measured, when multiple time periods are being measured during a day.

When only one measurement type is applicable to the metered or un-metered service points identified in the NM1 segment, the REF02 in this segment should contain one of the following codes as the first two characters to describe the type of consumption:

K1 Kilowatt Demand (kW)
K2 Kilovolt Amperes Reactive Demand (kVAR)
K3 Kilovolt Amperes Reactive Hour (kVARH)
K4 Kilovolt Amperes (kVA)
K5 Kilovolt Amperes Reactive (kVAR)
KH Kilowatt Hour (kWh)
HH Hundred Cubic Feet (CCF)
TZ Thousand Cubic Feet (MCF)
TD Therms

The following codes are sent as the last three characters of the REF02 element to document the interval capabilities of the metered or un-metered service delivery point(s) identified in the NM1 segment. If that capability is not known then the interval that should be reported is the scheduled meter reading interval.

BIM Bi-Monthly
DAY Daily
MON Monthly
QTR Quarterly
TOU Time of Use

001-999 - Reporting Intervals. (015 indicates 15 minute intervals, 060 indicates 60 minute intervals, etc.)

Segment: **REF** **Reference Identification (Use Time of Day)**
Position: 130
Loop: NM1 Optional (Dependent)
Level: Detail
Usage: Optional (Dependent)
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Enrollment Accept Responses: Conditional
Other Requests/Responses: Not Used

This segment is NOT applicable to gas enrollments but may be applicable to an electric enrollment when usage for the electric account being enrolled is measured for multiple consumption types and/or multiple periods in a day.
A REF~TU segment must be sent to describe the types of consumption being measured for the service delivery point(s) identified in the NM109 element, when the REF~MT segment contains "COMBO" OR when multiple consumption periods are being measured during a day (e.g. on peak, off peak, etc.).

REF~TU~51~KHMON
REF~TU~41~K1BIM

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			TU	Trial Location Code
				REF02 will contain a code that indicates the time of day for which measurements are obtained.
Mand.	**REF02**	**127**	**Reference Identification**		**M AN 1/30**
			41	Off Peak
				At the utility's option, this code is used to designate Small Time of Use Off Peak Energy.
			42	On Peak
				At the utility's option, this code is used to designate Small Time of Day On Peak Energy.
			43	Intermediate Peak
			45	Per Gallon
				Summer On Peak
			49	Mist
				Winter On Peak
			50	Predominant
				Winter Mid Peak
			51	Total/Totalizer
				Use "51" when: The total of all consumption of the indicated type for all periods recorded by the meter indicated in the NM1 segment will be reported in the 867 transaction. For example, if only the total usage for a metered service point will be sent in the 867, the REF~TU should contain "51" on the Accept Response. When consumption will be reported by intervals on the 867 transaction, for example, off peak, on peak, and total

	then multiple REF~TU segments must be present on the Accept Response with codes of "41","42" and "51" for the applicable metered service point. At the utility's option, this code is used to designate Total Energy or Total Billed Demand.
57	Boarded or Blocked
	Summer Total
58	Planned
	Winter Total
73	Low to High
	Summer Off Peak
74	Low to Medium
	Summer Intermediate Peak
75	Low to Moderate
	Winter Off Peak
84	Good to High
	High Tension On Peak Energy
85	High
	High Tension Off Peak Energy
86	Budgeted
	Low Tension On Peak Energy
87	Forecast
	Low Tension Off Peak Energy
88	Adjusted
	Low Tension Total Energy
89	Allocated
	Low Tension Primary Demand
90	Increasing
	Low Tension Secondary Demand
91	Stable
	Low Tension Transmission Demand
92	Declining
	High Tension Total Energy
93	Previous
	High Tension Primary Demand
94	Potential
	High Tension Transmission Demand

Must Use	REF03	352	Description	O	AN 1/80

The REF03 element is required when the REF~TU segment is being sent to associate the time of day interval in the REF02 element of this segment with the type of consumption and the meter cycle frequency for each meter indicated in the NM1 segment.

For example, if a specific meter provides both kilowatt hours and demand measurements for peak and off peak intervals for a monthly reading period, multiple REF~TU segments would be sent as follows:

REF~TU~41~KHMON
REF~TU~42~KHMON
REF~TU~41~K1MON
REF~TU~42~K1MON

Valid values for REF03 for consumption types:

K1 Kilowatt Demand (kW)
K2 Kilovolt Amperes Reactive Demand (kVAR)
K3 Kilovolt Amperes Reactive Hour (kVARH)
K4 Kilovolt Amperes (kVA)
K5 Kilovolt Amperes Reactive (kVAR)
KH Kilowatt Hour (kWh)

Valid values for metering periods to be reported on an 867:

BIM Bi-Monthly
DAY Daily
MON Monthly
QTR Quarterly

001-999 is used to report the intervals reportable by an interval meter.

Segment: **REF** **Reference Identification (ESCO Rate Code)**
Position: 130
Loop: NM1 Optional (Dependent)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Notes: Enrollment Requests: Conditional
Other Requests: Not Used
Responses: Conditional

This segment is required in an Enrollment Request transaction when the bill option is Utility Rate Ready consolidated billing (utility calculates the charges appearing on the ESCO portion of the customer's consolidated bill) and the ESCO will use rate codes (rather than prices) to communicate the rate to be applied in calculating its customers' charges.

REF~RB~R23X40
REF~RB~1150100

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			RB	Rate code number	
				REF02 Contains the ESCO Rate Code that will indicate the prices to be applied to this service point.	
Must Use	**REF02**	**127**	**Reference Identification**		**X AN 1/30**
			An alphanumeric rate code indicating a table of rates used to calculate net charges associated with this metering point.		

Segment: **SE** **Transaction Set Trailer**
Position: 150
Loop:
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Notes: Request: Required
Response: Required

SE~37~0001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**SE01**	**96**	**Number of Included Segments**	**M N0 1/10**
Mand.	**SE02**	**329**	**Transaction Set Control Number**	**M AN 4/9**
			This identifier is the same identifier used in ST02 that started this transaction set.	

EXAMPLES

These examples are presented for illustrative purposes only. Although they are syntactically correct with respect to the published transaction standard for TS814 Enrollment Request & Response, it should be understood that these examples reflect certain assumptions regarding optional and conditional data segments in this standard. Accordingly, these examples are not necessarily indicative of the manner in which a specific Utility or ESCO would map a specific transaction.

Scenario 1: Request for Gas Enrollment - Bill Option is Utility Rate Ready

ST*814*0061!	Transaction Set header; transaction defined is an ***814***; control number assigned by originator
BGN*13*20060615072434*20060615!	Transaction is a ***Request***; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*006827749!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006994735!	Utility Name and DUNS number
N1*8R*RESTOVER NURS HME&HOSP!	Customer Name
LIN*ABC001*SH*GAS*SH*CE!	Unique LIN reference number; service is ***Gas***; request is for ***Enrollment***
ASI*7*021!	Transaction is a request; action is ***Enrollment***
REF*11*526894GS!	ESCO assigned account number for the customer
REF*12*378832100!	Utility assigned account number for the customer
REF*BLT*LDC!	***Utility*** is Bill Presenter
REF*PC*LDC!	***Utility*** is Bill Calculator
REF*GS*B*MONTHLY!	Gas Supply Service Option is ***Balancing***; Account will be balanced ***monthly***
REF*ALC*Y!	Customer being enrolled is a ***Human Needs Customer***
AMT*DP*1.00!	ESCO service is ***100% tax exempt***
AMT*RJ*.95!	ESCO Commodity price is ***$.95 per unit***
AMT*FW*5.00!	ESCO Fixed Charge is $5.00 per bill period
SE*17*0061!	Transaction Set trailer; segment count; control number

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Scenario 1: Accept Response

ST*814*0064!	Transaction Set header; transaction defined is an ***814***; control number assigned by originator
BGN*11*20060619145101*20060619***2006061 5072434!	Transaction is a Response; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*006827749!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006994735!	Utility Name and DUNS number
N1*8R*RESTOVER NURS HME & HOSP!	Customer Name
N3*129 KINGS PARK DR HSE!	Customer Service Address-Street
N4*LIVERPOOL*NY*13090!	Customer Service Address-City State Zip
LIN*ABC001*SH*GAS*SH*CE!	Unique LIN reference number; service is ***Gas***; response pertains to ***Generation Services***
ASI*WQ*021!	Status is ***Accept***; action is ***Enrollment***
REF*11*526894GS!	ESCO assigned account number for the customer

Scenario 1 Accept Response – Continued

REF*12*378832100!	Utility assigned account number for the customer
REF*65*19*MON!	Utility meter read cycle for this customer
REF*BF*19*MON!	Utility bill cycle for this customer
REF*BLT*LDC!	***Utility*** is bill presenter
REF*PC*LDC!	***Utility*** is bill calculator
REF*NR*Y!	The enrolling customer is currently on budget billing for Utility charges
REF*GS*B*MONTHLY!	Gas Supply Service Option is ***Balancing Option;*** Account will be balanced ***Monthly***
REF*TX*Y!	Utility Tax Exempt
DTM*150*20060701!	Assigned Start Date for the ***Enrollment***
AMT*RJ*.95!	ESCO Commodity price is $.95 per unit
AMT*FW*5.00!	ESCO Fixed Charge is $5.00 per bill period
NM1*MQ*3******32*OJ325996!	Service end point on the account is metered; this is the meter number
REF*NH*641!	Utility Rate Class associated with this meter
REF*PR*SC2MO!	Utility Rate SubClass associated with this meter
REF*MT*TDMON!	Measurement Type for this meter is ***Therms;*** Reporting interval for consumption is ***Monthly***
NM1*MQ*3******32*OH545252!	2nd Service end point on the account is metered; this is the meter number
REF*NH*641!	Utility Rate Class associated with this meter
REF*PR*SC2MO!	Utility Rate SubClass associated with this meter
REF*MT*TDMON!	Measurement Type for this meter is ***Therms;*** Reporting interval for consumption is ***Monthly***
SE*29*0064!	Transaction Set trailer; segment count; control number

Scenario 1: Reject Response

ST*814*0068!	Transaction Set header; transaction defined is an ***814;*** control number assigned by originator
BGN*11*20060619145101*20060619***2006061 5072434!	Transaction is a ***Response;*** Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*006827749!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006994735!	Utility Name and DUNS number
N1*8R*RESTOVER NURS HME & HOSP!	Customer Name
LIN*ABC001*SH*GAS*SH*CE!	Unique LIN reference number; service is ***Gas;*** request is for ***Enrollment***
ASI*U*021!	Status is ***Reject;*** action is ***Enrollment***
REF*7G*NFI!	Data Quality Reject Reason is ***"Not First In"***
REF*12*378832100!	Utility assigned account number for the customer
SE*10*0068!	Transaction Set trailer; segment count; control number

Scenario 2: Request for Electric Enrollment with Secondary Request for Historic Usage

ST*814*0069!	Transaction Set header; transaction defined is an ***814***; control number assigned by originator
BGN*13*20060622ERQCEHU*20060622!	Transaction is a ***Request***; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*006817952!	ESCO Name and DUNS number
N1*8S*CON EDISON*1*006982359!	Utility Name and DUNS number
N1*8R*CUSTOMER NAME!	Customer Name
LIN*AACCDD0101A*SH*EL*SH*CE!	Unique LIN reference number; service is ***Electric***; request is for ***Generation Services***
ASI*7*021!	Status is ***Request***; action is ***Enrollment***
REF*11*A12345009Z!	ESCO assigned account number for the customer
REF*12*994102162510009!	Utility assigned account number for the customer
REF*BLT*ESP*AGENT!	ESCO is bill presenter; Agency Billing model is applicable
REF*PC*DUAL!	Bill calculator is Dual (Utility and ESCO will calculate their own charges)
LIN*AACCDD0101B*SH*EL*SH*HU!	Unique LIN reference number; service is ***Electric***; request is for ***Generation Services***
ASI*7*029!	Status is ***Request***; action is ***Historic Usage***
REF*11*A12345009Z!	ESCO assigned account number for the customer
REF*12*994102162510009!	Utility assigned account number for the customer
SE*16*0069!	Transaction Set trailer; segment count; control number

Scenario 2: Accept Response(s): Both Enrollment and Historic Usage Requests are Accepted

(Note: Responses to Request transactions containing multiple requests may be sent in a single Response transaction or in multiple Response transactions)

ST*814*0071!	Transaction Set header; transaction defined is an ***814***; control number assigned by originator
BGN*11*1234567890*20060626***20060622ERQ CEHU!	Transaction is a ***Response***; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*006817952!	ESCO Name and DUNS number
N1*8S*CON EDISON*1*006982359!	Utility Name and DUNS number
N1*8R*CUSTOMER NAME!	Customer Name
N3*348 7TH AVE!	Customer Service Address-Street
N4*NEW YORK*NY*10001-5001!	Customer Service Address-City State Zip
N1*BT*ATTN: CUSTOMER!	Customer Name for Mailing
N3*C/O 237 W 35TH ST, 16TH FLOOR!	Customer Mailing Address-Street
N4*NEW YORK*NY*10001-1989!	Customer Mailing Address-City State Zip
LIN*AACCDD0101A*SH*EL*SH*CE!	Unique LIN reference number; service is ***Electric***; response pertains to ***Generation Services***
ASI*WQ*021!	Status is ***Accept***; action is ***Enrollment***

Scenario 2 Response – Continued

REF*1P*A13*CONTACT LIAISON REGARDING BILL SETUP!	Information regarding Enrollment acceptance
REF*11*A12345009Z!	ESCO assigned account number for the customer
REF*12*994102162510009!	Utility assigned account number for the customer
REF*65*CM*MON!	Customer's meter cycle & period
REF*BF*CY*MON!	Customer's bill cycle & period
REF*BLT*ESP*AGENT!	ESCO is bill presenter; Agency Billing model is applicable
REF*PC*DUAL!	Bill calculator is ***Dual*** (Utility and ESCO will calculate their own charges)
REF*SPL*J!	***Marginal Pricing Zone is NYC***
DTM*150*20060717!	Assigned Service Start Date is ***07/17/2006***
NM1*MQ*3******32*1839295!	Service end point on the account is metered; this is the meter number
REF*NH*9!	Utility Rate Class associated with this meter
REF*PR*44!	Utility Rate SubClass associated with this meter
REF*LO*SC3B!	Utility Load Profile Group Code
REF*MT*KHMON!	Measurement Type for this meter ***is Kilowatt hours;*** Reporting interval for consumption is ***Monthly***
NM1*MQ*3******32*5190008!	2nd Service end point on the account is metered; this is the meter number
REF*NH*9!	Utility Rate Class associated with this meter
REF*PR*44!	Utility Rate SubClass associated with this meter
REF*LO*SC3B!	Utility Load Profile Group Code
REF*MT*KHMON!	Measurement Type for this meter ***is Kilowatt hours;*** Reporting interval for consumption is ***Monthly***
NM1*MQ*3******32*5190012!	3rd Service end point on the account is metered; this is the meter number
REF*NH*9!	Utility Rate Class associated with this meter
REF*PR*44!	Utility Rate SubClass associated with this meter
REF*LO*SC3B!	Utility Load Profile Group Code
REF*MT*KHMON!	Measurement Type for this meter ***is Kilowatt hours;*** Reporting interval for consumption is ***Monthly***
NM1*MQ*3******32*51990013!	4th Service end point on the account is metered; this is the meter number
REF*NH*9!	Utility Rate Class associated with this meter
REF*PR*44!	Utility Rate SubClass associated with this meter
REF*LO*SC3B!	Utility Load Profile Group Code
REF*MT*KHMON!	Measurement Type for this meter ***is Kilowatt hours;*** Reporting interval for consumption is ***Monthly***
NM1*MQ*3******32*60437299!	5th Service end point on the account is metered; this is the meter number
REF*NH*9!	Utility Rate Class associated with this meter

Scenario 2 Response – Continued

REF*PR*44!	Utility Rate SubClass associated with this meter
REF*LO*SC3B!	Utility Load Profile Group Code
REF*MT*K1MON!	Measurement Type for this meter is ***Kilowatt Demand;*** Reporting interval for consumption is ***Monthly***
LIN*AACCDD0101B*SH*EL*SH*HU!	2nd LIN loop: Unique LIN reference number; service is ***Electric;*** response pertains to ***Historic Usage***
ASI*WQ*029!	Status is ***Accept;*** action is ***Inquiry***
REF*1P*A13*ZERO IS VALID VALUE FOR HU!	Information regarding Historic Usage response
REF*11*A12345009Z!	ESCO assigned account number for the customer
REF*12*994102162510009!	Utility assigned account number for the customer
SE*52*0071!	Transaction Set trailer; segment count; control number

Scenario 2: Responses: Accept Enrollment Request, Reject Historic Usage Request

ST*814*0072!	Transaction Set header; transaction defined is an ***814;*** control number assigned by originator
BGN*11*200606260099*20060626***20060622ERQCEHU!	Transaction is a ***Response;*** Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*006817952!	ESCO Name and DUNS number
N1*8S*CON EDISON*1*006982359!	Utility Name and DUNS number
N1*8R*CUSTOMER NAME!	Customer Name
N3*348 7TH AVE!	Customer Service Address-Street
N4*NEW YORK*NY*10001-5001!	Customer Service Address-City State Zip
N1*BT*ATTN: CUSTOMER!	Customer Name for Mailing
N3*C/O 237 W 35TH ST, 16TH FLOOR!	Customer Mailing Address-Street
N4*NEW YORK*NY*10001-1989!	Customer Mailing Address-City State Zip
LIN*1*SH*EL*SH*CE!	Unique LIN reference number; service is ***Electric;*** response pertains to ***Generation Services***
ASI*WQ*021!	Status is ***Accept;*** action is ***Enrollment***
REF*1P*A13*CONTACT LIAISON REGARDING BILL SETUP!	Information regarding Enrollment acceptance
REF*11*A12345009Z!	ESCO assigned account number for the customer
REF*12*994102162510009!	Utility assigned account number for the customer
REF*65*CM*MON!	Customer's meter cycle & period
REF*BF*CY*MON!	Customer's bill cycle & period
REF*BLT*ESP*AGENT!	ESCO is bill presenter; Agency Billing model is applicable
REF*PC*DUAL!	Bill calculator is ***Dual***(Utility and ESCO will calculate their own charges)
REF*SPL*J!	***Marginal Pricing Zone is NYC***
REF*TDT*C	***Account Settlement – Class Load Shape***
REF*TX*Y	***Utility Tax Exempt Status***
DTM*150*20060717!	Assigned Service Start Date is ***07/17/2006***
NM1*MQ*3******32*1839295!	Service end point on the account is metered; this is the meter number

Scenario 2 Response – Continued

REF*NH*9!	Utility Rate Class associated with this meter
REF*PR*44!	Utility Rate SubClass associated with this meter
REF*LO*SC3B!	Utility Load Profile Group Code
REF*MT*KHMON!	Measurement Type for this meter ***is Kilowatt hours;*** Reporting interval for consumption is ***Monthly***
NM1*MQ*3******32*5190008!	2nd Service end point on the account is metered; this is the meter number
REF*NH*9!	Utility Rate Class associated with this meter
REF*PR*44!	Utility Rate SubClass associated with this meter
REF*LO*SC3B!	Utility Load Profile Group Code
REF*MT*KHMON!	Measurement Type for this meter ***is Kilowatt hours;*** Reporting interval for consumption is ***Monthly***
NM1*MQ*3******32*5190012!	3rd Service end point on the account is metered; this is the meter number
REF*NH*9!	Utility Rate Class associated with this meter
REF*PR*44!	Utility Rate SubClass associated with this meter
REF*LO*SC3B!	Utility Load Profile Group Code
REF*MT*KHMON!	Measurement Type for this meter ***is Kilowatt hours;*** Reporting interval for consumption is ***Monthly***
NM1*MQ*3******32*51990013!	4th Service end point on the account is metered; this is the meter number
REF*NH*9!	Utility Rate Class associated with this meter
REF*PR*44!	Utility Rate SubClass associated with this meter
REF*LO*SC3B!	Utility Load Profile Group Code
REF*MT*KHMON!	Measurement Type for this meter ***is Kilowatt hours;*** Reporting interval for consumption is ***Monthly***
NM1*MQ*3******32*60437299!	5th Service end point on the account is metered; this is the meter number
REF*NH*9!	Utility Rate Class associated with this meter
REF*PR*44!	Utility Rate SubClass associated with this meter
REF*LO*SC3B!	Utility Load Profile Group Code
REF*MT*K1MON!	Measurement Type for this meter is ***Kilowatt Demand;*** Reporting interval for consumption is ***Monthly***
LIN*2*SH*EL*SH*HU!	2nd LIN loop: Unique LIN reference number; service is ***Electric***; response pertains to ***Historic Usage***
ASI*U*029!	Status is ***Reject***; action is ***Historic Usage***
REF*7G*HUR!	Data Quality Reject Reason is ***"Historical Usage Not Released"***
REF*12*994102162510009!	Utility assigned account number for the customer
SE*51*0072!	Transaction Set trailer; segment count; control number

Scenario 3: Request for Gas Enrollment with Secondary Request for Gas Profile

ST*814*0073!	Transaction Set header; transaction defined is an ***814***; control number assigned by originator
BGN*13*20060626072434*20060626!	Transaction is a ***Request***; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*9*006808921DUNS!	ESCO Name and DUNS number
N1*8S*NATIONAL FUEL GAS DISTRIBUTION CORP*1*006976666!	Utility Name and DUNS number
N1*8R*CUSTOMER NAME!	Customer Name
LIN*044*SH*GAS*SH*CE!	Unique LIN reference number; service is ***Gas***; request is for ***Generation Services***
ASI*7*021!	Transaction is a ***Request***; action is ***Enrollment***
REF*11*GS01069564!	ESCO assigned account number for the customer
REF*12*377504508!	Utility assigned account number for the customer
REF*BLT*LDC!	***Utility*** is bill presenter
REF*PC*LDC!	***Utility*** is bill calculator
REF*VI*101809!	ID for Gas Pool assigned to this customer
AMT*DP*1.00!	Customer is tax exempt
AMT*RJ*.87!	ESCO Commodity price per unit
LIN*045*SH*GAS*SH*GP!	2nd LIN loop: Unique LIN reference number; service is ***Gas***; request pertains to ***Gas Profile***
ASI*7*029!	Status is ***Request***; action is ***Inquiry***
REF*11*GS01069564!	ESCO assigned account number for the customer
REF*12*377504508!	Utility assigned account number for the customer
SE*19*0073!	Transaction Set trailer; segment count; control number

Scenario 3: Accept Response(s): Both Primary and Secondary requests are accepted

(Note: responses to Request transactions containing multiple requests may be sent in a single Response transaction or in multiple Response transactions)

ST*814*0076!	Transaction Set header; transaction defined is an ***814***; control number assigned by originator
BGN*11*123456*20060628***20060626072434!	Transaction is a ***Response***; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*9*006808921DUNS!	ESCO Name and DUNS number
N1*8S*NATIONAL FUEL GAS DISTRIBUTION CORP*1*006976666!	Utility Name and DUNS number
N1*8R*CUSTOMER NAME!	Customer Name
N3*4295 MAIN STREET!	Customer Service Address-Street
N4*ORCHARD PARK*NY*14127-2688!	Customer Service Address-City State Zip
LIN*Z001*SH*GAS*SH*CE!	Unique LIN reference number; service is ***Gas***; response pertains to ***Generation Services***
ASI*WQ*021!	Status is ***Accept***; action is ***Enrollment***
REF*11*GS01069564!	ESCO assigned account number for the customer
REF*12*377504508!	Utility assigned account number for the customer
REF*65*01*MON!	Customer's meter read cycle
REF*BF*01*MON!	Customer's bill cycle
REF*BLT*LDC!	***Utility*** is bill presenter
REF*PC*LDC!	***Utility*** is bill calculator
REF*VI*101809!	ID for Gas Pool assigned to this customer
NM1*MQ*3******93*UNMETERED!	Service end point on the account is unmetered
REF*NH*3!	Utility Rate Class associated with this service end point
REF*PR*9!	Utility Rate SubClass associated with this service end point
REF*MT*HHMON!	Measurement type for this service end point is ***CCF***; reporting interval is ***Monthly***
NM1*MQ*3******93*UNMETERED!	2nd Service end point on the account is unmetered
REF*NH*3!	Utility Rate Class associated with this service end point
REF*PR*9!	Utility Rate SubClass associated with this service end point
REF*MT*HHMON!	Measurement type for this service end point is ***CCF***; reporting interval is ***Monthly***
LIN*Z002*SH*GAS*SH*GP!	Unique LIN reference number; service is ***Gas***; response pertains to ***Gas Profile***
ASI*WQ*029!	Status is ***Accept***; action is ***Inquiry***
REF*1P*A13*GAS PROFILE NOT SUPPORTED - WILL SEND ACTUAL USAGE!	Information sent to clarify Accept Response
REF*11*GS01069564!	ESCO assigned account number for the customer
REF*12*377504508!	Utility assigned account number for the customer
SE*30*0076!	Transaction Set trailer; segment count; control number

Scenario 4: Request for Gas Enrollment – Single Retailer Model

ST*814*0079!	Transaction Set header; transaction defined is an ***814***; control number assigned by originator
BGN*13*20060630001*20060630!	Transaction is a ***Request***; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*006827749!	ESCO Name and DUNS number
N1*8S*NATIONAL FUEL GAS DISTRIBUTION CORP*1*006976666!	Utility Name and DUNS number
N1*8R*CUSTOMER NAME!	Customer Name
LIN*AACCDD0102005A*SH*GAS*SH*CE!	Unique transaction reference number; service is ***Gas***; request is for ***Generation Services***
ASI*7*021!	Status is ***Request***, action is ***Enrollment***
REF*11*A12345009Z!	ESCO assigned account number for the customer
REF*12*123456701!	Utility assigned account number for the customer
REF*BLT*ESP!	**Marketer** is bill presenter
REF*PC*DUAL!	**Both Parties** act as bill calculator
REF*VI*000123456!	Gas Pool ID
REF*SU*N!	Customer does not require life support equipment
SE*14*0079!	Transaction Set trailer; segment count; control number

Scenario 4: Accept Response for Gas Enrollment – Single Retailer Model

ST*814*000180!	Transaction Set header; transaction defined is an ***814***; control number assigned by originator
BGN*11*00120060702*20060702***20060630001!	Transaction is a ***Response***; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*006827749!	ESCO Name and DUNS number
N1*8S*NATIONAL FUEL GAS DISTRIBUTION CORP*1*006976666!	Utility Name and DUNS number
N1*8R*JANE SMITH!	Customer Name
N3*123 SERVICE POINT ROAD!	Customer Service Address-Street
N4*BUFFALO*NY*14207!	Customer Service Address-City/State
LIN*123A*SH*GAS*SH*CE!	Unique transaction reference number; service is ***Gas***; response pertains to ***Generation Services***
ASI*WQ*021!	Status is ***Accept***; action is ***Enrollment***
REF*11*A12345009Z!	ESCO assigned account number for the customer
REF*12*123456701!	Utility assigned account number for the customer
REF*65*03*MON!	Utility meter read cycle for the customer
REF*BF*03*MON!	Utility bill cycle for the customer
REF*BLT*ESP!	**Marketer** is bill presenter
REF*PC*DUAL!	**Both Parties** act as bill calculator
REF*SU*N!	Life support not required
REF*VI*000123456!	Gas Pool ID
DTM*150*20060719!	Assigned Service Start Date is ***7/19/2006***
NM1*MQ*3******32*82582420!	Service end point on the account is metered; this is the meter number
REF*NH*04!	Utility Rate Class associated with this meter
REF*MT*HHMON!	Measurement Type for this meter is **CCF**; Reporting interval for consumption is ***Monthly***
SE*22*000180!	Transaction Set trailer; segment count; control number

Scenario 5: Request for Unmetered Service Only on Electric Account

ST*814*000000001!	Transaction Set header; transaction defined is an ***814***; control number assigned by originator
BGN*13*20060630001*20060630!	Transaction is a ***Request***; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*006817952!	ESCO Name and DUNS number
N1*8S*ORANGE & ROCKLAND*24*231234567!	Utility Name and DUNS number
N1*8R*JOHN SMITH!	Customer Name
LIN*1*SH*EL*SH*CE!	Unique LIN reference number; service is ***Electric***; request is for ***Generation Services***
ASI*7*021!	Status is ***Request***; action is ***Enrollment***
REF*11*U555789!	ESCO assigned account number for the customer
REF*12*0941235550*U!	Utility assigned account number for the customer
REF*BLT*LDC!	***Utility*** is Bill Presenter
REF*PC*LDC!	***Utility*** is Bill Calculator
AMT*RJ*.08!	ESCO Commodity price is ***$.08 per unit***
AMT*FW*5.00!	ESCO Fixed Charge is $5.00 per bill period
SE*14*000000001!	Transaction Set trailer; segment count; control number

Scenario 5: Accept Response for Unmetered Service Only on Electric Account

ST*814*00009!	Transaction Set header; transaction defined is an ***814***; control number assigned by originator
BGN*11*000113585R*20060703***20060630001!	Transaction is a ***Response***; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*006817952!	ESCO Name and DUNS number
N1*8S*ORANGE & ROCKLAND*24*231234567!	Utility Name and DUNS number
N1*8R*JOHN SMITH!	Customer Name
N3*123 MAIN ST!	Customer Service Address-Street
N4*CITY*NY*100019587!	Customer Service Address-City State Zip
LIN*1*SH*EL*SH*CE!	Unique LIN reference number; service is ***Electric***; request is for ***Generation Services***
ASI*WQ*021!	Status is ***Request***; action is ***Enrollment***
REF*11*U555789!	ESCO assigned account number for the customer
REF*12*0941235550*U!	Utility assigned account number for the customer
REF*65*15*MON!	Customer's meter cycle & period
REF*BF*15*MON!	Customer's bill cycle & period
REF*BLT*LDC!	***Utility*** is Bill Presenter
REF*PC*LDC!	***Utility*** is Bill Calculator
REF*SPL*G!	***Marginal Pricing Zone is Hud Valley***
DTM*150*20060717!	Assigned Service Start Date is ***07/17/2006***
AMT*KZ*1.6!	ICAP
DTM*AB2****RD8*20140601-20150531	ICAP Effective Date
AMT*RJ*.08!	ESCO Commodity price is ***$.08 per unit***
AMT*FW*5.00!	ESCO Fixed Charge is $5.00 per bill period
NM1*MQ*3******93*UNMETERED!	Service end point on the account is unmetered
REF*NH*UM1!	Utility Rate Class associated with this service end point
REF*PR*L01!	Utility Rate SubClass associated with this service end point
REF*LO*LT92!	Utility Load Profile Group
REF*MT*KHMON!	Measurement type for this service end point is ***KwH;*** reporting interval is ***Monthly***
SE*26*00009!	Transaction Set trailer; segment count; control number