New York Implementation Standard

For

Standard Electronic Transactions

TRANSACTION SET

814

Change (Account Maintenance)

Ver/Rel 004010

	Summary of Changes
November 1, 2001	**Initial Release**
April 16, 2002	**Version 1.1 Issued**
	Notice of Correction
	Max Use of the REF*TU segment is revised from 1 to >1.
August 7, 2002	**Version 1.2 Issued**
	Added new REF segment (REF*AJ) to accommodate exchange of a Utility Account Number for the ESCO/Marketer
	Inserted updated Field Descriptions Guideline Page
	Modified the segment notes for the N1*8R and N1*BT segments to clarify that an N1 segment is required in an N1 loop when other segments are sent in that loop.
	Modified the element notes for REF03 in the REF*65 (Meter Cycle Code) and REF*BF (Bill Cycle Code) segments to indicate it is only required when the REF02 data in each segment is insufficient for the recipient to determine when, or how frequently, a customer's meter is read or the account is billed. (See October 2, 2001 clarification).
	Modified the segment notes for the REF*BLT (Bill Presenter) and REF*PC (Bill Calculator) segments to remove the parenthetical reference to RG&E regarding Single Retailer since National Fuel will also offer Single Retailer.
	Modified the Front Matter Notes regarding 'Request Transactions' to indicate that changes in bill option may not be processed when the customer is not yet active with the E/M initiating the Request transaction. (See June 21, 2002 order adopting EDI standards for Utility Rate Ready Consolidated Billing).
	Modified the segment notes for the AMT*DP segment to remove the parenthetical relating to RG&E in favor of a more generic note. Both RG&E and National Fuel Gas offer single Retailer Model.
	Added text to the segment notes for the REF*MT (Measurement Type and Reporting Interval) segment and REF02 element to indicate that this segment must be accompanied by a REF*TU segment in some instances in order to adequately describe the measurement period(s) or time intervals associated with specific service end points.
	Modified the use attribute for REF*TD (Reason for Change – Account Level) segment at position 030 from Required to Conditional. This segment is only required when a change in account level data is being reported.
March 17, 2004	**Version 1.3 Issued**
	Corrected the 'Max Use' attribute for the REF*TD (Reason for Change – Meter Level) segment in the NM1 loop to >1.
	An element note is added to clarify the use of the LIN01 identifier in a Response transaction.
	Added two codes (AMT9M & AMT9N) to the REF*TD (Reason for Change – Account Level) segment to enable ESCOs to transmit information about changes in a customer's tax rates when the customer's bill option is Utility Rate Ready Consolidated billing.
	Added AMT*9M and AMT*9N segments to enable ESCOs to transmit changes in 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. When different tax rates are applicable to portions of the customer's service i.e. when a REF*RP (Portion Taxed Residential) segment was present in an Enrollment 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).
	Corrected the segment notes for the NM1 Loop to indicate that transmitting an NM1 Loop in a Response transaction is 'Optional' rather than "Not Used".
	Corrected sample transaction 2.A. (E/M Change Request) to delete the DTM007 (Effective Date of Change) segments which are not applicable to the change being reported in this example.

		Modified sample transactions 4.A. & 4.B. to add segments for a change in the customer's tax rate coincident with the change to Utility Rate Ready billing.
		Notes regarding the attributes of "R" elements are added to the Front Matter notes.
		Coding for the REF*GC (Gas Capacity Assignment/Obligation) has been corrected (from Yes/No to Y/N) to be consistent with the coding for the same segment in the Enrollment Standard.
May 17, 2006		**Version 1.4 Issued**
		Any references to Niagara Mohawk or NMPC throughout the document were revised to refer to National Grid.
		References to RG&E's use of the Single Retailer Model have been deleted. This model is no longer offered in Rochester's service territory. A new example replaces Scenario #4 in the previous Implementation Guide.
		A PER segment is added to the N1 (Customer) Loop (N101=8R) to enable parties to communicate changes in a customer's telephone number where the telephone number was initially sent in an Enrollment Accept Response transaction in an N1 (Customer) Loop. A change in the customer's telephone number coincident with a change in mailing address should be reported in an N1 (Name for Mailing) Loop in the Single Retailer model (see scenario 2 in the examples).
		The N1*8R (Customer) segment note is revised to delete extraneous text and to reflect the addition of a PER segment in the N1 (Customer) Loop.
		The LIN segment notes are revised to clarify the looping structure at the header and detail levels when multiple changes are being sent in a Request transaction.
		The REF*11 (ESCO/Marketer Customer Account Number) segment note is changed to indicate that this segment must be sent when the Utility is the bill presenter and there is a change in the account number.
		The REF*12 (Utility Account Number) segment note is changed to reflect the correct line number reference in the data dictionary.
		A REF03 element is added to the REF*12 segment (Utility Account Number) for use in Change Requests sent to, or received from, Orange & Rockland Utilities when the reported change pertains to the un-metered portion of a customer's electric service when both metered and un-metered service are present on the same account.
		The REF*AJ (Utility Assigned Account Number for ESCO/Marketer) segment note is revised to indicate that this segment is Not Used in a Response transaction.
		A REF*LF (E/M Late Fees) segment is added at the account level to enable E/Ms to communicate a change in late fee policies for customer's receiving a Rate Ready consolidated bill from National Fuel Gas.
		An AMT*B5 (E/M Budget Plan Installment Amount) segment is added for use in National Fuel Gas service territory. The AMT*B5 segment is used in that service territory to communicate a change in the customer's budget plan installment amount for E/M charges when the bill option is Rate Ready consolidated billing and the payment option is Pay-As-You-Get-Paid.
		Additional codes were added to the REF*TD (Reason for Change – Account Level) segment to accommodate the new segments (PERIC, REFLF, and AMTB5).
October 23, 2014		**Version 1.5 Issued**
		New Change Reason Codes added at the account level and new segments from Case No. 12-M-0476 REFIJ – Change Industrial Classification Code REFSG – Change Utility Discount Indicator REFTDT – Change Account Settlement Indicator REFTX – Change Tax Exempt Status REFYP – Change NYPA Discount Indicator Added new segment DTM*AB2 (ICAP Effective Dates)
		Utility specific notes are generalized, as appropriate, and designated for relocation to/reference within Utility Maintained EDI Guides, as necessary.

		Replaced references to Marketer and E/M with ESCO
April 7, 2015		**Version 1.6 Issued**
		• Clarifying revisions to ESCO Service Tax Rate related segments. • Changes permitting a rate ready utility to receive a bill credit from an ESCO to be provided to an Assistance Program Participant.
July 24, 2015		**Version 1.7 Issued**
		• 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 • Rejection reason codes ECB and MOV added to REF*7G Segment • Changes to N3 Address Information (Mailing Address) & N4 Geographic Location (Mailing Address) to accommodate provision of a customer's forwarding address in APP Credit Rejection Responses when the customer has moved outside the service territory. • Clarified circumstances under which 814C could be used by a Bill Ready Utility to accept an APP Credit from an ESCO. • Added APP Credit Example • Errata - Corrected acronym for North American Industry Classification System
January 29, 2016		**Version 1.8 Issued**
		• Modification to notes for DTM Date/Time Reference (Effective Date of Change) Segment to show ICAP Tag changes as an exception, making provision of the segment optional in this instance. • ICAP Tag oriented clarifications/examples in notes for AMT Monetary Amount (ICAP), DTM Date/Time Reference (ICAP Effective Dates) and DTM Date/Time Reference (Effective Date of Change) Segments. • ICAP Tag Change Example added. • Modification to REF Reference Identification (Gas Capacity Assignment/Obligation) Segment to correspond to Orders issued in Case No. 07-G-0299.
June 30, 2016		**Version 1.9 Issued**
		• Existing references to Assistance Program Participant Credits (APP Credits) are changed to EPA (ESCO Pricing Adjustment) Credits; the APP Credit is one type of an EPA Credit. • Modifications to clarify EPA Credits and adjustments to EPA Credit are to be submitted as Real Numbers. • Update to conditionality of REF Reference Identification (Previous Utility Customer Account Number) segment. • PERIC code is retired to conform with usage of N18R and N1BT codes in other retail choice jurisdictions. • Added IF (Insufficient Funds) code and broadened description of the ECB code in REF Reference Identification (Reject Response Reasons) segment. • Updates to example transactions.
March 31, 2017		**Version 2.0 Issued**
		• Modifications to support 867 MIU/HIU transactions.

October 31, 2017		Version 2.1 Issued
		• Inclusion of changes to address errata since filing of Version 2.0 in REF*TD and REF*7G segments.
April 30, 2018		**Version 2.2 Issued**
		• Changes to enable data exchange for ESCOs that bill customers under ESCO Combined Billing related to HEAP payments. New segments AMT*B1and AMT*BK added.
		• Optional REF*5E added to communicate changes in customer APP Status to ESCO.
		• AMT*7 Segment repurposed to process Guaranteed Savings Program (GSP) Credits. GSP Credits are a type of ESCO Pricing Adjustment.
		• New AMT*UJ segment added for ESCO Generic Credits.
		• Elimination of references to NY Billing Agency model.
		• References to Single Retailer Model changed to ESCO Consolidated Billing, where appropriate.
November 30, 2018		**Version 2.3 Issued**
		• Consistency modifications to gray box notes
May 31, 2019		**Version 2.4 Issued**
		• Modifications to REF~PC segment regarding ESCO Combined Billing.
		• Optional REF*KY added to indicate whether the account has associated generation along with corresponding changes to REF~TD.

	Notes pertaining to the use of this document
Purpose	• An 814 Change transaction is used to communicate changes in customer account information between market participants. The 814 Change Standards are based on the ASC X12 Ver/Rel 004010 standard and related UIG guidelines.
One account per 814	• Each change transaction may contain only one account for one commodity (i.e. electric, gas, etc.).
Cross referencing Request & Response Transactions	• The BGN02 element in the BGN segment received on a request must be returned in the BGN06 element of the BGN segment sent on the response. • The LIN01 element is used to cross-reference each individual LIN response with its corresponding request.
Validation Field	• In New York, the validation field is the customer's utility account number (with check digit, if included).
Request Transaction	• An 814 Change transaction can accommodate more than one change request per commodity per account. • Each change request pertaining to data transmitted at the account level must be sent in a separate LIN loop. Account level items include all segments listed on page 1 of this guide under "Heading" as well as those segments listed under "Detail" that are NOT part of the NM1 loop. For example, if changing from dual billing to utility consolidated billing, it would be necessary to request a change in bill presenter as well as bill calculator. Each change request in this example would be sent in a separate LIN loop. • Customer name changes are sent in the N1*8R segment. Changes to the name for mailing address are sent in the N1*BT segment. Changes in the customer's telephone number should be sent in the N1 (Customer) Loop (N101=8R) if the information originated in that Loop. • At the meter level, all change requests are grouped by meter in individual LIN loops. If a change is made to all meters on a multi-metered account, the data should be reported in a single NM1 loop and the literal "ALL" sent in the NM109 element. Changes related to a single meter, such as changes to both Utility Rate Class and Utility Load Profile Group code, are sent in one LIN Loop. Change requests for different meters are grouped in separate LIN loops. For example, if different Utility Rate codes apply to each meter on a multi-metered account, the change to Utility Rate Code should be reported in a separate LIN loop for each meter. • ESCO initiated Requests to change a customer's bill option (Bill Presenter and/or Bill Calculator segments) may not be processed for accounts that are not yet active with that ESCO (i.e. enrollment is pending but not yet effective) at the time the change Request was received.
NM1 loop structure	• Changes to meter information are communicated in the NM1 loop. Each NM1 loop may contain all changes for a particular meter, all changes affecting the un-metered service on the account or a single change that pertains to all metered or un-metered service points on the account. Each NM1 loop is sent within a single LIN loop. If multiple changes are being requested, the changes pertaining to each meter or un-metered service are sent in separate NM1 loops. Each NM1 loop may be associated with only one LIN loop.

Response Transaction	• There must be one response LIN for each request LIN.
	• Requests are accepted or rejected at the LIN level.
	• Responses may be created and sent at different times in different 814 transactions, but the response for each request must be sent within 2 business days.
	• The Change Response Transaction has been structured as follows:
	   ♦ The transaction containing an Accept Response may contain the REF*TD(s) from the request transaction, at the option of the sender, but will not contain or echo back the segment that was changed.
	   ♦ The transaction containing a Reject Response will contain the rejection reason (REF*7G) and, may contain, at the option of the sender, the REF*TD(s) from the Request Transaction and/or the segments that were in error.

Use of REF*TD segment	• The REF*TD segments are used to indicate to the receiver the type of change that is being requested. At least one REF*TD is required on a Request transaction. The REF*TD(s) may be echoed back on the Response transaction at the option of the sender.
	• REF*TD segments are located at the account (LIN) or meter (NM1) level within the document.
	   ♦ Each data element that is being changed at the Account (LIN) level must be associated with a REF*TD segment in the LIN loop.
	   ♦ For a meter addition, a REF*TD code of NM1MA must be present, and all new data reported in a single NM1 loop.
	   ♦ For a meter exchange, a REF*TD code of NM1MX must be present, and all data for the new meter is reported in a single NM1 loop (a REF*46 segment, containing the old meter number, is returned in the same NM1 loop).
	   ♦ For a meter removal (not an exchange), an NM1 segment and a REF*TD segment with a code of NM1MR must be present. No other segments or elements are required.
	   ♦ For other changes at the meter level, an NM1 segment, the applicable REF*TD segment, and the segment containing the change must be present.

Conditional Segments	• A change in one data segment may necessitate changes in dependent data segments. For example, when there is a change in billing option, some dependent data segments may also be subject to change. For example, when changing from dual billing to Utility rate ready consolidated billing, in addition to the changes in Bill Presenter and Bill Calculator segments, it will be necessary to send other data segments (such as ESCO Commodity Price, ESCO Fixed Charge, or ESCO Rate Code, Percent Tax Exempt, Portion Taxed Residential, Current Budget Billing Status, etc.) in order for the Utility to be able to calculate the customer's bill.
Changes to Utility Account Numbers or Meter Numbers	• When updating or correcting existing Utility account numbers or meter numbers, the Change Request transaction must contain the new (or corrected) and old number. • For the Utility account number, the new, or corrected, account number is sent in a REF*12 segment. The old account number is sent in a REF*45 segment. • For meter numbers, the new, or corrected, meter number is sent in an NM1 segment. The old meter number is sent in a REF*46 segment.

Use of DTM*007 segment	• A DTM*007 segment (Effective Date of Change) is used to communicate the effective date for a requested change in the following circumstances: ♦ Utility Request – required for non-DTM segments ♦ Utility Response – may be sent to establish the effective date of an ESCO requested change ♦ ESCO Requests sent to communicate a change in mailing address (required for Single Retailer Model) ♦ ESCO Requests to change the ESCO Commodity Price (AMT*RJ), ESCO Fixed Charge (AMT*FW), or ESCO Rate Code (REF*RB) when the Utility is the Bill Presenter and Bill Calculator and has agreed to process rate or price changes mid-cycle.
Data Element Attributes	• Data elements whose X12 attribute type is 'R' (for example AMT02 elements) 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.
Single Retailer Model	• There are some differences in the required segments for a Change Request and/or Response 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 as well as the corresponding data dictionary.
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.
Definitions	• The term Utility 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.
Companion Documents	• All of the applicable business rules for New York are not necessarily documented in this implementation guide. Accordingly, the Account Change Business Process document and/or the 814 Change Data Dictionary should be reviewed where further clarification is needed. • In addition, further information on the Change data elements can be found in the Implementation Guide for the 814 Enrollment Request & Response.

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 grayboxes below should also be reviewed for additional NY Rules.

Segment:	**REF** Reference Identification (Utility Customer Account Numb...
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 required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	

Notes: Required

The Utility account number assigned to the customer is used for validation and must be present on all transactions.

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

011231287654398

One or more examples.

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 ac... number for the customer.	
Must Use	**REF02**	**127**	**Reference Identification**	**AN 1/30**
			Utility assigned customer account number	
			The utility account number must be suppl... non-alphanumeric characters. (Characters... on a bill, for example, should be removed...	

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

These columns show the X12 attributes for each data element:

M = Mandatory
O = Optional
X = Conditional

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

1/30 = Minimum 1, Maximum 30

814 Change (Account Maintenance)

Functional Group ID=GE

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Account Maintenance Transaction Set (814) for use within the context of an Electronic Data Interchange (EDI) environment.

Notes:

This guideline is limited to defining various account maintenance information that may be exchanged between trading partners.

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)	O	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		
17	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	
18	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 (Reason for Change - Account Level)	O	1		
24	030	REF	Reference Identification (ESCO Customer Account Number)	O	1		
25	030	REF	Reference Identification (Utility Account Number)	O	1		
26	030	REF	Reference Identification (Previous Utility Account Number)	O	1		
27	030	REF	Reference Identification (Utility Account Number for ESCO)	O	1		
28	030	REF	Reference Identification (Meter Cycle Code)	O	1		
29	030	REF	Reference Identification (Bill Cycle Code)	O	1		
30	030	REF	Reference Identification (Bill Presenter)	O	1		
31	030	REF	Reference Identification (Bill Calculator)	O	1		

32	030	REF	Reference Identification (Current Budget Billing Status)	O	1
33	030	REF	Reference Identification (ESCO Late Fees)	O	1
34	030	REF	Reference Identification (Partial Participation Portion)	O	1
35	030	REF	Reference Identification (Customer on Life Support)	O	1
36	030	REF	Reference Identification (Gas Pool ID)	O	1
37	030	REF	Reference Identification (Gas Capacity Assignment/Obligation)	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 (Tax Exempt Status)	O	1
45	030	REF	Reference Identification (Interval Usage Option)	O	1
46	030	REF	Reference Identification (APP Status)	O	1
47	030	REF	Reference Identification (Net Meter Indicator)	O	1
48	040	DTM	Date/Time Reference (Effective Date of Change)	O	1
49	040	DTM	Date/Time Reference (Assigned Service Start Date)	O	1
50	040	DTM	Date/Time Reference (Assigned Service End Date)	O	1
51	040	DTM	Date/Time Reference (ICAP Effective Date)	O	1
52	060	AMT	Monetary Amount (ESCO Budget Plan Installment Amount)	O	1
53	060	AMT	Monetary Amount (Tax Exemption Percent)	O	1
54	060	AMT	Monetary Amount (ESCO Commodity Price)	O	1
55	060	AMT	Monetary Amount (ESCO Fixed Charge)	O	1
56	060	AMT	Monetary Amount(Customer's Tax Rate for ESCO Charges -1)	O	1
57	060	AMT	Monetary Amount(Customer's Tax Rate for ESCO Charges -2)	O	1
58	060	AMT	Monetary Amount (ICAP)	O	1
59	060	AMT	Monetary Amount (ESCO Pricing Adjustment Credit)	O	1
60	060	AMT	Monetary Amount (ESCO Generic Credit)	O	1
61	060	AMT	Monetary Amount (Basic HEAP Payment Amount Received)	O	1
62	060	AMT	Monetary Amount (Emergency HEAP Payment Amount Received)	O	1
			LOOP ID - NM1		>1
63	080	NM1	Metered or UnMetered Service Points	O	1
65	130	REF	Reference Identification (Reason for Change - Meter Level)	O	>1
67	130	REF	Reference Identification (Old Meter Number)	O	1
68	130	REF	Reference Identification (Utility Rate Service Class)	O	1
69	130	REF	Reference Identification (Utility Rate Sub Class)	O	1
70	130	REF	Reference Identification (Utility Load Profile Group Code)	O	1
71	130	REF	Reference Identification (Measurement Type and Reporting Interval)	O	1
72	130	REF	Reference Identification (Use Time of Day)	O	>1
74	130	REF	Reference Identification (ESCO Rate Code)	O	1
75	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:
Utility Request: Required
ESCO Response: Required

ESCO Request: Required
Utility 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**
			Identifying control number assigned by the originator of a transaction set. This identifier must be unique for each transaction set within a functional group.	

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:
Utility Request: Required
ESCO Response: Required

ESCO Request: Required
Utility Response: Required

Request: BGN~13~20000301145101~20060917
Response: BGN~11~20000402072434~20060919~~~20000301145101

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 a Request transaction is placed in the BGN06 element in the corresponding Response transaction(s) sent in response to the Request transaction.

Mand.	BGN03	373	Date	M DT 8/8

The date the transaction was created by the sender's applications system in the form CCYYMMDD.

Cond.	BGN06	127	Reference Identification	O AN 1/30

Refers to the BGN02 identification number of the original Request. This element is "Not Used" on Request transactions but is "Required" on Response transactions.

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:	Utility Request: Required		
	ESCO Response: Required		
	ESCO Request: Required		
	Utility Response: Required		
	N1~SJ~~24~123456789		
	N1~SJ~ESCO NAME~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 name and address information as pertaining to a service provider for which billing is being rendered	
				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:	

Utility Request: Required
ESCO Response: Required

ESCO Request: Required
Utility Response: Required

N1~8S~~24~012345678
N1~8S~UTILITY COMPANY~24~912345678

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 that may be supplied to provide "eyeball" identification of the Utility. 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 Federal Tax ID		

Segment:	**N1** **Name (Customer)**
Position:	040
Loop:	N1 Optional (Dependent)
Level:	Heading
Usage:	Optional (Dependent)
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:	Utility Request: Conditional

Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Optional
Utility Response: Optional

This segment must be sent in a Request when a change in the customer name associated with the account (Utility or ESCO) or service address (Utility) or customer telephone number (Utility or ESCO) is being reported.

N1~8R~NAME
N1~8R~JOHN SMITH
N1~8R~DAIMLER-BENZ NA CORP

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	
			Identify the end use customer targeted by this transaction.	
Mand.	**N102**	**93**	**Name**	**M AN 1/60**
			The new customer name or the literal "NAME".	

When a change in service address is being sent, an N1 segment (in addition to the N3 and N4 segments) is required. For address changes the N102 element may contain the actual customer name or the literal 'NAME'.

Segment:	**N3** Address Information (Service Address)	
Position:	060	
Loop:	N1 Optional (Dependent)	
Level:	Heading	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To specify the location of the named party	
Syntax Notes:		
Semantic Notes:		
Notes:	Utility Request : Conditional ESCO Response: Not Used ESCO Request: Not Used Utility Response: Not Applicable The N3 and N4 segments within the N1*8R loop are sent when the Utility is reporting a change in service address and must be accompanied by an N1*8R segment. N3~375 PARK AVE N3~OUTDOOR - PETER COOPER VILLAGE CORNER OF EAST 20TH & FI~RST AVENUE	

Data Element Summary

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

Segment:	**N4** Geographic Location (Service Address)	
Position:	070	
Loop:	N1 Optional (Dependent)	
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:	Utility Request: Conditional	

Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Not Used
Utility Response: Not Applicable

N4~NY~NY~10152
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**

Code (Standard State/Province) as defined by appropriate government agency. A utility may elect to populate this element with:
- State codes.
- State codes within their service territory, i.e. NY or PA.

Otherwise, this element will not be sent by other Utilities.

	Ref. Des.	Data Element	Name	Attributes	
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). Utilities will populate this element only with US zip code information, unless a utility elects to populate this element with:
- US zip codes and Canadian or other foreign postal codes.
- US zip code information only when the mailing address is located within their service territory.

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:	Utility Request: Conditional	
	ESCO Response: Not Used	
	ESCO Request: Not Used	
	Utility Response: Not Applicable	

This segment may be sent by the utility to provide the customer's telephone number, Facsimile Number and/or Email Address when this information was unavailable at the time an enrollment request was processed or to correct such information previously sent in an Enrollment Accept Response transaction. This segment may be sent by an ESCO to provide the correct or missing information when the information provided in an Enrollment Response has been determined to be incorrect or absent. This segment is sent in an N1 (Customer) Loop and must be accompanied by an N1*8R segment.

The format for phone/facsimile numbers is area code + 7 digit number (xxxyyyzzzz).

If a change is made to this segment, the N18R code is transmitted in the REF*TD segment at position 030.

In its Utility Maintained EDI Guide, a utility will indicate if it accepts and/or sends Change Requests containing the Customer's Telephone/Facsimile number and/or Email Address.

PER~IC~~TE~8455551212
PER~IC~~TE~7165551212~FX~8455551234~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	
Must Use	**PER03**	**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.		
Must Use	**PER04**	**364**	**Communication Number**		**X AN 1/80**
			Complete communications number/address according to sender's records.		
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 (Dependent)	
Level:	Heading	
Usage:	Optional (Dependent)	
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:		

Utility Request : Conditional
ESCO Response: Conditional

ESCO Request : Conditional
Utility Response: Conditional

This segment must be sent by either the Utility or the ESCO when the customer receives a consolidated bill and the name associated with the mailing address for billing and/or the mailing address or customer's telephone number changes.

When rejecting a GSP Credit because the customer has moved outside the service territory, this segment may be used to indicate the customer's forwarding address will be sent (if known by the utility).

N1~BT~Daimler-Benz C/O Siegfried Schwung
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	
Mand.	**N102**	**93**	**Name**	**M AN 1/60**

Name associated with the mailing address for billing. This N1 segment must be sent to report a change in the name associated with the mailing address for billing. This segment must also be sent when reporting a change in the address for billing (the N3/N4 segments) and/or a change in the customer's telephone number (the PER segment). When a change is being requested in either mailing address or telephone number, this element may contain the literal "NAME".

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

Notes: Utility Request: Conditional
ESCO Responses: Conditional

ESCO Request : Conditional
Utility Response: Conditional

This segment must be sent by the Utility or ESCO when a change in mailing address for billing occurs and the customer receives a consolidated bill. This segment must accompanied by an N1*BT segment.

The N301 and N302 elements may contain the street address, City Name, State and postal code when the mailing address is located outside their service territory (for either domestic or foreign addresses) if specified by a utility in its Utility Maintained EDI Guide.

When rejecting a GSP Credit because the customer has moved outside the service territory, this segment, accompanies by an N1*BT segment may be used to send the customer's forwarding address (if known by the utility).

N3~Epplestrasse 225 70567
N3~123 N Main St~Room 323
N3~One Parklane Blvd 911 East Dearborn MI 48126
N3~107 980 West 1st St North Vancouver British Columbia Ca~nada

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 (Dependent)
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:	Utility Request: Conditional

ESCO Response: Conditional

ESCO Request : Conditional
Utility Response: Conditional

This segment must be sent in conjunction with N1*BT and N3 (Mailing Address) when the mailing address for billing changes and the customer receives a consolidated bill. This segment must accompanied by an N1*BT segment.

When rejecting a GSP Credit because the customer has moved outside the service territory, this segment, accompanies by an N1*BT segment may be use to send the customer's forwarding address (if known by the utility).

N4~Stuttgart Germany 011-49-711-17-0
N4~FOREIGN ADDRESS
N4~MYCITY~NY~19123
N4~North Vancouver BC Canada
N4~Dearborn~MI~48126

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**N401**	**19**	**City Name**	**O AN 2/30**

Domestic addresses: This field will contain the City Name. Alternatively, a utility may populate this field with a City Name only when the City is located within their service territory provided that if the City is outside its service territory, the City Name, State and postal code will be sent in the N3 segment and the N401 will contain the literal "Outside Service Territory".
Foreign addresses (other than Canada): The Country Code will not be sent in the N404 element. In its Utility Maintains EDI Guide, a utility will specify the way it will populate this field with:
- City Name and Country Name and transmit postal codes in the N403 element.
- The literal "Foreign Address" and transmit the address in the N3 segment.
- The City Name, Country Name and postal code in this element (up to 30 characters).
- The City Name and Country Name.

Cond.	**N402**	**156**	**State or Province Code**	**O ID 2/2**

Code (Standard State/Province) as defined by appropriate government agency. A utility may elect to populate this element with:
- State codes.
- State codes within their service territory, i.e. NY or PA.
Otherwise, this element will not be sent by other Utilities.

Cond.	**N403**	**116**	**Postal Code**	**O ID 3/15**

Code defining international postal zone code excluding punctuation and blanks (zip code for United States). Utilities will populate this element only with US zip code information, unless a utility elects to populate this element with:
- US zip codes and Canadian or other foreign postal codes.

- US zip code information only when the mailing address is located within their service territory.

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:	Utility Request: Not Used	

Utility Request: Not Used
ESCO Response: Not Applicable

ESCO Request: Conditional
Utility Response: Conditional

This segment should be sent when the ESCO becomes aware of a change in the customer's telephone number coincident with a change in mailing address. This segment is sent in the N1 Name (Name for Mailing) Loop and must be accompanied by an N1*BT segment.

If a change is made to this segment the N1BT code is transmitted in the REF*TD segment at position 030.

PER~IC~~TE~7166756271

Data Element Summary

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

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:	Utility Request : Required
	ESCO Response: Required
	ESCO Request : Required
	Utility Response: Required
	Each change at the Account Level must be sent in a separate LIN Loop. The LIN03 specifies the product (electric or gas) and the LIN05 specifies the action event.
	LIN~AACCDD0102004A~SH~EL~SH~CE This change pertains to electric service

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.		
			The LIN01 identifier sent in a Request transaction must be returned in the transaction containing the response to that request (see examples).		
Mand.	**LIN02**	**235**	**Product/Service ID Qualifier**		**M ID 2/2**
			SH	Service Requested	
				A numeric or alphanumeric code from a list of services available to the customer	
Mand.	**LIN03**	**234**	**Product/Service ID**		**M AN 1/48**
			Commodity - there may be only one commodity (Electric or Gas) for each 814 transaction.		
			EL		
			GAS		
Mand.	**LIN04**	**235**	**Product/Service ID Qualifier**		**M ID 2/2**
			SH	Service Requested	
				A numeric or alphanumeric code from a list of services available to the customer	
Mand.	**LIN05**	**234**	**Product/Service ID**		**M AN 1/48**
			CE	Customer Enrollment	
				Request for change in customer account information.	

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:	Utility Request: Required	
	ESCO Response: Required	
	ESCO Request : Required	
	Utility Response: Required	
	ASI~7~001 Request for change	
	ASI~WQ~001 Accept Response for request for change	
	ASI~U~001 Reject Response to a request for change	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**ASI01**	**306**	**Action Code**	**M ID 1/2**
			7 Request	
			U Reject	
			Inability to accept for processing due to the lack of required information	
			WQ Accept	
Mand.	**ASI02**	**875**	**Maintenance Type Code**	**M ID 3/3**
			001 Change	

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:	Utility Request : Not Used	
	ESCO Response: Not Used	
	ESCO Request: Not Used	
	Utility Response: Required	

This segment is required when the transaction is a Response transaction (BGN01=11) and the action or status is Reject (ASI01=U) in order to describe the reason that a change request has been rejected. If an ESCO questions or disagrees with the utility's rejection response, it should contact the utility via non-EDI means.

If codes 008, ECB or MOV are used to reject AMT*7 (ESCO Pricing Adjustment Credit) or AMT*UJ (ESCO Generic Credit), the supplier is responsible for directly reimbursing the customer.

REF~7G~C11

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	REF01	128	**Reference Identification Qualifier**	M ID 2/3
			7G Data Quality Reject Reason	
			Reject reasons associated with a reject status notification.	
Must Use	REF02	127	**Reference Identification**	X AN 1/30
			008 Account Inactive or Pending Inactive	
			A13 Other (REF03 required)	
			A76 Account not found (this includes inactive account numbers as well as no account number found)	
			A91 Account does not have service requested	
			API Required information missing (REF03 Required)	
			C11 Change reason (REF*TD) missing or invalid	
			ECB Credit cannot be included on customer bill due to current ESCO's Billing model selection or the ESCO issuing the credit does not have a billing relationship with the utility (REF03 required)	
			IF Credit not sufficiently funded	
			FRB Incorrect billing option (REF*BLT) requested	
			FRC Incorrect bill calculation type (REF*PC) requested	
			M76 Meter Number Invalid or Not Found	
			MOV Customer moved outside service territory	
			NIA Not Interval Account	
			NMA Net Metered Account	
			W05 Requested rate not found	
Cond.	REF03	352	**Description**	X AN 1/80
			Used to provide explanatory text for an A13, API or ECB reject code.	

Segment:	**REF** Reference Identification (Reason for Change - Account Level)
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 : Conditional
	ESCO Response: Optional
	ESCO Request: Conditional
	Utility Response: Optional
	This segment is used to identify the data segment(s) sent at the account level that are being changed. See REF*TD Segment (Reason for Change – Meter Level) of this Implementation Guide for a description of the codes used to identify a change in the data segment(s) sent at the meter level.
	REF~TD~N18R
	REF~TD~REFKY~D

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			TD Reason for Change		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			AMT7 Change ESCO Pricing Adjustment Credit		
			Used to report a credit to the customer's account when the ESCO has charged a customer that receives service subject to a price guarantee more than what the customer would have paid the utility and the ESCO is required to provide a credit to the customer, i.e. a Guaranteed Savings Program (GSP) Credit. The Utility will include this one-time credit on the customer's next bill.		
			AMT9M Change Customers' Tax Rate 1		
			Utility Rate Ready Consolidated Billing Only. Used to report a change in the customer's tax rate when the utility is calculating ESCO charges. The 9M code may also be used to report a change in the residential tax rate applicable to a portion of the service (i.e. a REF*RP was present in the Enrollment transaction) when URR billing is in effect. The AMT9N code may be used to report a change in the portion of the account taxed at a commercial rate.		
			AMT9N Change Customers' Tax Rate 2		
			Utility Rate Ready Consolidated Billing Only. This code may only be used to report a change in the customer's tax rate applicable to the portion of the service taxed at a commercial rate in instances when part of the service is taxed at a residential rate and the balance at a commercial rate (i.e. REF*RP was present in the Enrollment transaction). The AMT9M code may be used to report a change in the residential tax rate on that account.		

AMTB1	Change Benefit Amount	
	Used to report receipt of a Basic HEAP Payment under ESCO Combined Billing using Single Retailer transactions.	
AMTB5	Change ESCO Budget Plan Installment Amount	
	Supported only if indicated within a utility's Utility Maintained EDI Guide.	
AMTBD	Change ESCO Budget Plan Balance	
	Supported only if indicated within a utility's Utility Maintained EDI Guide.	
AMTBK	Change Disbursements for Protection and Preservation	
	Used to report receipt of an Emergency HEAP Payment under ESCO Combined Billing using Single Retailer transactions.	
AMTDP	Change Percentage of Service Tax Exempt	
AMTFW	Change ESCO Fixed Charge	
AMTKZ	Change ICAP	
	ELECTRIC Service Only.	
AMTRJ	Change ESCO Commodity Price	
AMTUJ	Change ESCO Generic Credit	
	Used to report a credit to the customer's account when the ESCO provides a generic credit to the customer. The Utility will include this one-time credit on the customer's next bill.	
DTM007	Change Effective Date	
DTM150	Change Service Period Start Date	
	Enrollment is pending. This code is used by the Utility to report a change in the Assigned Service Start Date.	
DTM151	Change Service Period End Date	
	A Drop is pending. This code is used by the Utility to report a change in the Assigned Service End Date.	
N18R	Change Contact Information or Service Address	
	Use this code when the Customer contact information, e.g. name, phone, fax or email, on the account is being changed and/or a change of service address is being reported.	
N1BT	Change Contact Information for Mailing or Mailing Address	
	Use this code when the Customer contact information, e.g. name, phone, fax or email, for mailing and/or the mailing address is being changed.	
REF11	Change ESCO Customer Account Number	
REF12	Change Utility Account Number	
REF5E	Change Consumer Identifier (APP Status)	
REF65	Change Meter Read Cycle	
REFBF	Change Bill Cycle	
REFBLT	Change Billing Type (Bill Presenter)	
REFGC	Change Gas Capacity Assignment/Obligation	
	GAS Service Only	
REFIJ	Change Industrial Classification Code	
REFIU	Barge Permit Number (Interval Usage Option)	
REFKY	Change Special Meter Configuration	
	Supported only if indicated within a utility's Utility Maintained EDI Guide.	
REFLF	Change ESCO Late Fee Policy	
	Supported only if indicated within a utility's Utility Maintained EDI Guide.	
REFNR	Change Current Budget Billing Status	
REFPC	Change Party that Calculates the Bill (Bill Calculator)	
REFPGC	Change Partial Participation Portion	

				REFRP	Change Portion Taxed Residential		
				REFSG	Change Utility Discount Indicator		
				REFSPL	Change ISO LBMP Zone		
					ELECTRIC Service Only		
				REFSU	Change Special Processing Code		
					Use this code to report a change in the Customer's Life Support status (Single Retailer Model)		
				REFTDT	Change Account Settlement Indicator		
				REFTX	Change Utility Tax Exempt Status		
				REFVI	Change Gas Pool ID		
					GAS Service Only		
				REFYP	Change NYPA Discount Indicator		
Cond.	**REF03**	352	**Description**			**X**	**AN 1/80**
			A		Indicates the identifier in REF02 is being Added		
					• Special Meter Configuration (net meter add)		
			D		Indicates the field identified in REF02 is being Deleted		
					• Special Meter Configuration (net meter removal)		

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:	Utility Request: Not Used	
	ESCO Response: Not Applicable	
	ESCO Request: Conditional	
	Utility Response: Conditional	
	This segment is sent by the ESCO when the Utility is the bill presenter and the ESCO account number for the customer is being changed. This segment may be returned in a response transaction at the discretion of the utility.	
	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	
			Number identifies a telecommunications industry account	
			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 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: Required
	ESCO Response: Required
	ESCO Request : Required
	Utility Response: Required
	The Utility account number assigned to the customer is used for validation and must be present on all transactions.
	The Utility is required to report any change in the customer's account number. The new/current account number is sent in the REF*12 segment and the prior account number must be sent in a REF*45 segment (see notes on line 49 of the 814C data dictionary). The Response transaction must contain the new account number in the REF*12 segment.
	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	
			Account number under which billing is rendered	
			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 change 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:	Utility Request: Conditional
	ESCO Response: Not Used
	ESCO Request: Not Used
	Utility Response: Not Applicable
	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 must be sent by the Utility when the utility assigned account number for the customer is changed.
	REF~45~9194132485705971

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			45 Old Account Number	
			Identifies accounts being changed	
			REF02 is the Utility's previous account number for the customer.	
Must Use	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			Prior utility assigned account number for the customer designated in this transaction. Current utility assigned account number for the customer must be present in REF*12.	

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:	Utility Request: Conditional	
	ESCO Response: Conditional	
	ESCO Request: Conditional	
	Utility Response: Conditional	
	If required by the utility as specified, in its Utility Maintained EDI Guide, the utility assigned account number for the ESCO must be included in requests and responses.	
	REF~AJ~3134597	

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:	Utility Request: Conditional
	ESCO Response: Not Used
	ESCO Request: Not Used
	Utility Response: Not Applicable
	This segment is sent to report a change in the customer's meter read cycle.
	REF~65~A12~MON
	REF~65~18~BIM

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Meter Cycle Code		
			65 Total Order Cycle Number		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			An alphanumeric code indicating when meter reads are scheduled for this account. This code will be used to obtain the meter reading schedule information from a Utility's web site.		
Cond.	**REF03**	**352**	**Description**	**X**	**AN 1/80**
			REF03 should be sent if the code in REF02 is insufficient to communicate the usage period to be reported when regularly scheduled use information is sent in an 867 transaction.		
			BIM bi-monthly		
			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 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: Conditional	
	ESCO Response: Not Used	
	ESCO Request: Not Used	
	Utility Response: Not Applicable	
	This segment must be sent by the Utility when there has been a change in the customer's bill cycle date or bill frequency.	
	REF~BF~18~MON	
	REF~BF~05~QTR	

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**
			An alphanumeric code indicating when a scheduled bill is prepared for the customer. Some companies may bill on a cycle other than the read cycle in which case this code would be used to retrieve the scheduled billing date from the utility's web site.	
Cond.	**REF03**	**352**	**Description**	**O AN 1/80**
			If present, indicates the frequency with which the account is billed by the Utility. Billing frequency information may be implicit in the data provided by the Utility on its web site. If the data sent in REF02 is insufficient to determine bill frequency (by reference to the Utility's web site) and a change in bill cycle is being reported, then this element must be sent.	
			BIM bi-monthly	
			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:

Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Conditional
Utility Response: Not Used

This segment is sent to report a change in the Bill Presenter. It may be necessary to send additional dependent data segments when requesting a change in either bill presenter or bill calculator (REF*PC). See Front Matter notes for further instructions.

REF~BLT~DUAL
REF~BLT~LDC
REF~BLT~ESP

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	REF01	128	**Reference Identification Qualifier**	M ID 2/3
			BLT	Billing Type
				Identifies whether the bill is a single bill consolidated by the Utility, a single bill consolidated 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
				Sent when the ESCO will be the bill presenter under ESCO Combined Billing.
			LDC	Utility is the consolidated Bill Presenter

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:	Utility Request: Conditional	
	ESCO Response: Not Used	
	ESCO Request: Conditional	
	Utility Response: Not Used	
	This segment is sent to report a change in the Bill Calculator. It may be necessary to send additional dependent data segments when requesting a change in either bill presenter (REF*BLT) or bill calculator. See Front Matter notes (pages i - iv) for further instructions.	
	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 this data segment identifies the party that will calculate billed charges.	
Must Use	REF02	127	**Reference Identification**	X AN 1/30
			DUAL Each Party Calculates its own charges.	
			"DUAL" SHOULD BE SENT WHEN:	
			Under ESCO Combined Billing, i.e. when the ESCO is the Bill Presenter (REF*BLT= ESP), AND the utility sends an 810SR to the ESCO with bill ready utility charges fully calculated; OR	
			The Utility is the Bill Presenter (REF*BLT=LDC) AND the ESCO will send an 810 to the Utility with bill ready ESCO charges fully calculated; OR	
			Each Party will present their own bill (REF*BLT=DUAL) AND each will calculate their own charges.	
			LDC The Utility Calculates the ESCO Charges	
			RATE READY: The ESCO provides the rate or rate structure to the Utility. The Utility calculates the ESCO's portion of the 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:	Utility Request: Conditional	
	ESCO Response: Not Used	
	ESCO Request: Conditional	
	Utility Response: Not Used	
	This segment must be sent when the customer receives a consolidated bill AND the customer is being placed on a budget plan by the initiator of the transaction (either the Utility or ESCO) OR the customer's budget plan with the initiator of the transaction is being discontinued.	
	Budget billing changes can be requested only when consolidated billing is being used AND the billing party has agreed to calculate budget billing amounts for the non-billing party.	
	REF~NR~Y	
	REFF~NR~N	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	REF01	128	**Reference Identification Qualifier**	**M ID 2/3**
			NR Progress Payment Number	
			Indicates a change to the customer's budget billing status for a customer on consolidated billing.	
Must Use	REF02	127	**Reference Identification**	**X AN 1/30**
			N This customer is no longer on budget billing for the sender's charges.	
			Y This customer is, or will be, on budget billing for the sender's 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:	ESCO Request: Conditional
	Utility Response: Conditional
	Utility Request: Not Used
	ESCO Response: Not Applicable
	Where required by a utility this segment is used to report a change in the ESCOs late fee policy 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. This segment may be returned by the utility in the corresponding Response transaction.
	The code REFLF should be sent in the REF*TD segment at the account to identify the change.
	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.	
Optional	REF02	127	**Reference Identification**	X AN 1/30
			N2 No	
			Late fees should NOT be assessed by the Billing Party on ESCO past due amounts.	
			Y2 Yes	
			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:	Utility Request: Conditional	

Notes:

Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Conditional
Utility Response: Not Used

This segment is sent to report a change in the portion of a customer's load that will be supplied by the ESCO where the customer is a partial requirements customer of the Utility.

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		
			The value in REF02 indicates what portion of the customer's load will be served by the ESCO 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:
Utility Request: Not Used
ESCO Response: Not Applicable

ESCO Request: Conditional
Utility Response: Not Used

If supported by a utility, as specified in its Utility Maintained EDI Guide, the ESCO must report a change in an electric customer's life support status.

REF~SU~Y
REF~SU~N

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**
		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:	Utility Request: Not Used
	ESCO Response: Not used
	ESCO Request: Conditional
	Utility Response: Not Used
	GAS ONLY. This segment is used when the ESCO moves a customer from one Gas Pool to another.
	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 ID's 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**
			New Gas Pool ID for the account specified.		

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: Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Not Used
Utility Response: Not Applicable

GAS ONLY. This segment is provided to the ESCO by the Utility to convey a change in the intended or obligated pipeline capacity requirements necessary to meet the needs of the end use customer as described in its Utility Maintained EDI Guide.

REF~GC~YES
REF~GC~NO

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 must arrange for capacity for the customer being enrolled		
		Y	Yes: ESCO must take the Utility release or assignment of its pipeline capacity for the 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:	Utility Request: Conditional
	ESCO Response: Not Used
	ESCO Request: Not Used
	Utility Response: Not Applicable
	ELECTRIC ONLY. This segment is sent to report a change in the LBMP zone for a customer.
	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 GENESE		
			C CENTRL		
			D NORTH		
			E MHK VL		
			F CAPITL		
			G HUD VL		
			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:	Utility Request: Conditional
	ESCO Response: Not Used
	ESCO Request: Conditional
	Utility Response: Not Used
	Where required by a utility in its Utility Maintained EDI Guide, this segment must be sent to the utility when there has been a change in the portion of a non-residential account that is taxed at a residential rate AND the customer's bill option is Utility Rate Ready consolidated billing.
	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	
			Percent of a Non-Residential account that should be considered residential for tax purposes.	
Must Use	REF02	127	**Reference Identification**	X AN 1/30
			The following codes are to be used:	
			20 Split Rate 10% Residential use	
			21 Split Rate 20% Residential use	
			22 Split Rate 30% Residential use	
			23 Split Rate 40% Residential use	
			24 Split Rate 50% Residential use	
			25 Split Rate 60% Residential use	
			26 Split Rate 70% Residential use	
			27 Split Rate 75% or above Residential use	

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:	Utility Requests: Conditional	
	ESCO Responses: Not Used	
	ESCO Request: Not Used	
	Utility Response: Not Applicable	
	Set by Utility for Electric accounts only.	
	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:	Utility Request: Conditional	
	ESCO Response: Not Used	
	ESCO Request: Not Used	
	Utility Response: Not Applicable	
	Sent by Utility for Electric accounts, if available in the utility's system and the utility do not otherwise provide the indicator through a non-EDI means.	
	REF~YP~Y	

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
REF01	**128**	**Reference Identification Qualifier**		**M** **ID 2/3**
		YP	Selling Arrangement	
			NYPA Discount Indicator. The customer receives any special incentives from the New York Power Authority.	
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 C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Notes:	Utility Request: Conditional
	ESCO Response: Not Used
	ESCO Request: Not Used
	Utility Response: Not Applicable
	Sent by Utility 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:	Utility Request: Conditional	
	ESCO Responses: Not Used	
	ESCO Request: Not Used	
	Utility Response: Not Applicable	
	Sent if available in the utility's system.	
	REF~IJ~123456~NAICS	
	REF~IJ~1234~SIC	

Data Element Summary

Cond.	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:	Utility Request: Conditional	

Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Not Used
Utility Response: Not Applicable

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 a Change Accept Response from the Utility when sent in the request by the ESCO.

A requested change will be effective mid-cycle, provided that it is received at least four calendar days prior to the next read date.

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

	Ref. Des.	Data Element	Name	Attributes
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 (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:
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 customer's APP benefit status has changed.

REF~5E~N

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**REF01**	128	**Reference Identification Qualifier**	M	ID 2/3
			5E	Consumer Identifier	
				APP Status	
Must Use	**REF02**	127	**Reference Identification**	X	AN 1/30
			The following codes are to be used:		
			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 (Effective Date of Change)			
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:				

Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Conditional
Utility Response: Conditional

This segment is required on all Utility initiated Requests (except for changes to ICAP Tags, Assigned Service Start or Assigned Service End Date). This segment is also required on the Utility Response to an ESCO Request for a change in customer billing option. This segment is required on ESCO initiated Requests reporting a change in the customer's mailing address or HEAP payment when Single Retailer transactions are used to support ESCO Consolidated Billing.

This segment may also be sent on ESCO initiated Requests to report a change in ESCO Commodity Price, Fixed Charge or Rate Code when the Utility is the Bill Presenter and Bill Calculator (Rate Ready Consolidated Billing) AND the Utility has agreed to process price or rate changes on a date other than the regularly scheduled bill cycle date.

When a DTM~007 segment is not sent and the date has not been provided in another DTM segment (DTM~105, DTM~AB2…), it can be presumed that the transaction date is the effective date of the change. In any case, the utility should clarify its use of this segment in its Utility Maintained EDI Guide.

DTM~007~20060917

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	DTM01	374	Date/Time Qualifier	M ID 3/3
			007 Effective	
			The date that the requested change is, or will become, effective.	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed in CCYYMMDD format.	

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:	Utility Request: Conditional	
	ESCO Response: Not Used	
	ESCO Request: Not Used	
	Utility Response: Not Applicable	
	May be sent by the Utility only when an enrollment request for the customer is pending.	
	DTM~150~20060313	

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 date, in the form CCYYMMDD, when the ESCO will begin serving the enrolling customer. The Utility determines the effective start date for an enrollment. This segment will be sent by the Utility when there is a change in the assigned service start date returned on an Enrollment Accept Response.	

Segment:	**DTM** Date/Time Reference (Assigned Service End 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:	Utility Request: Conditional	
	ESCO Request: Not Used	
	ESCO Response: Not Used	
	Utility Response: Not Applicable	
	This segment is sent by the Utility when a Drop is pending for the customer and the assigned service end date will vary by more than three days from the date indicated in the preceding Drop transaction.	
	DTM~151~20060313	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	DTM01	374	**Date/Time Qualifier**	M ID 3/3
			151 Service Period End	
Must Use	DTM02	373	**Date**	X DT 8/8
			The date, in form CCYYMMDD, when the customer's service with the enrolled ESCO will end. The Utility will provide the effective end date.	

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:	Utility Request: Conditional	
	ESCO Response: Not Used	
	ESCO Request: Not Used	
	Utility Response: Not Applicable	
	For electric customers, the ICAP tag effective dates should be sent with ICAP Tag changes.	
	DTM~AB2~~~~RD8~20150501-20160430	

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:	**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:	Utility Request: Not Used	
	ESCO Response: Not Applicable	
	ESCO Request: Conditional	
	Utility Response: Not Used	

This segment is sent by an ESCO to request a change in the ESCO budget plan installment amount when the customer's bill option is Utility Rate Ready consolidated billing. Where required by a utility, this segment must be sent to the utility to effect a change in the monthly installment associated with an ESCO budget plan.

The REF*TD segment at the account level should contain the code AMTB5 to designate this change.

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 (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:	

Utility Request: Not Used
ESCO Response: Not Applicable

ESCO Request: Conditional
Utility Response: Not Used

This segment must be sent by the ESCO when there is a change in the tax exemption status of the account and the Utility is the bill calculator, unless in its Utility Maintained EDI Guide a utility provides another means to implement the customer's sales tax exemption.

This segment is not applicable to the ESCO Combined Billing.

AMT~DP~1
AMT~DP~.75

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	AMT01	522	**Amount Qualifier Code**	M ID 1/3
			DP Exemption	
			Tax Exempt Percent: This code is used when some or all of the ESCO's service is exempt from state sales tax. See AMT02 for valid values.	
Mand.	AMT02	782	**Monetary Amount**	M R 1/18
			For percentage values, the whole number "1" represents 100 percent or the ESCO service is fully tax exempt from state sales taxes. Decimal numbers less than "1" represent percentages; "0" indicates the account is NOT exempt from state sales taxes.	

Segment:	**AMT** **Monetary Amount (ESCO 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:	Utility Request: Not Used ESCO Response: Not Applicable

ESCO Request: Conditional
Utility Response: Optional

This segment must be sent by the ESCO to report a change in commodity price when the bill option is Utility Rate Ready consolidated billing and the ESCO charges are being calculated based on a fixed price for all billed consumption on the account. The price change may be echoed back on the Utility Response transaction, at the option of the Utility, to confirm price changes.

This segment may be accompanied by a DTM*007 segment to communicate the effective date of the price change when the applicable Utility has agreed to process price changes on a date other than the regularly scheduled bill cycle date.

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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**AMT01**	**522**	**Amount Qualifier Code**	**M ID 1/3**
			RJ Rate Amount ESCO rate for the customer expressed as a monetary amount.	
Mand.	**AMT02**	**782**	**Monetary Amount**	**M R 1/18**
			Contains the unit price for each unit of measure for this customer.	

The ESCO will be required to provide rate codes, in lieu of prices, when different prices will be applied to each meter on a multi-metered account or the ESCO price will vary by either the unit of measure for each service end point or the time of day interval for individual service end points.

Segment:	$\mathbf{AMT}$ **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:	Utility Request: Not Used	
	ESCO Response: Not Applicable	
	ESCO Request: Conditional	
	Utility Response: Not Used	

This segment must be sent by the ESCO to report a change in the fixed charge per account when the bill option is Utility Rate Ready consolidated billing and the ESCO charges include a fixed charge on each account.

This segment may be accompanied by a DTM*007 segment to communicate the effective date of the change in fixed charge when the applicable Utility has agreed to process price changes on a date other than the regularly scheduled bill cycle date.

AMT~FW~2.00

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		
			ESCO fixed charge expressed as a monetary amount.			
Mand.	AMT02	782	**Monetary Amount**		M	R 1/18
			The fixed charge for this customer. Values must reflect two decimal places.			

Segment:	**AMT** Monetary Amount(Customer's Tax Rate for ESCO Charges -1)	
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:	Utility Request: Not Used	
	ESCO Response: Not Applicable	

ESCO Request: Conditional
Utility Response: Optional

Utility Rate Ready Consolidated Billing Only.

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 REF*RP segments.
Where supported:
- This segment is sent by an ESCO to report a change in the customer's tax rate for all service on the account or for the portion of the service taxed at a residential rate when a REF*RP segment was present in the Enrollment Request transaction.
- This segment is sent by an ESCO to report a change in the composite tax rate to compute the applicable tax amount associated with the ESCO charges.

The tax rate change may be echoed back on the Utility Accept Response transaction, at the option of the Utility, to confirm a tax rate change.

AMT~9M~.045

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
			For percentage values, the whole number "1" will represent 100 percent; decimal numbers less than "1" represent percentages.		

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:	Utility Request: Not Used	

Utility Request: Not Used
ESCO Response: Not Applicable

ESCO Request: Conditional
Utility Response: Optional

Utility Rate Ready Consolidated Billing Only.
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 REF*RP segments.
Where supported:
- This segment is sent by an ESCO to report a change in the customer's tax rate for that portion of the customer's service that is being taxed at a commercial rate when a REF*RP segment was present in the Enrollment Request transaction.
- This segment is sent by an ESCO to report a change in the composite tax rate to compute the applicable tax amount associated with the ESCO charges.

The tax rate change may be echoed back on the Utility Accept Response transaction, at the option of the Utility, to confirm a tax rate change.

AMT~9N~.075

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
			For percentage values, the whole number "1" will represent 100 percent; decimal numbers less than "1" represent percentages.	

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:	Utility Request: Conditional

Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Not Used
Utility Response: Not Applicable

Sent for Electric accounts, if available, to report a change in the customer's peak load contribution for Electric Service. The ICAP tag effective dates should be provided with this segment.

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

AMT~KZ~.015
DTM~AB2~~~~RD8~20140501-20150430

AMT~KZ~0.15~C
DTM~AB2~~~~RD8~20140501-20150430

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
			For percentage values, the whole number "1" represents 100 percent; decimal numbers less than "1" represent percentages from 1 percent to 99.99 percent.	
	AMT03	478	**Credit/Debit Flag Code**	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:	$\mathbf{AMT}$ **Monetary Amount (ESCO Pricing Adjustment Credit)**	
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:	Utility Request: Not Used	
	ESCO Response: Not Applicable	
	ESCO Request: Conditional	
	Utility Response: Optional	

This segment must be sent by the ESCO when a Guaranteed Savings Program (GSP) Credit, e.g. to credit an Assistance Program Participant, is to be included on a Rate Ready Consolidated customer bill. This segment would only be sent when the ESCO has charged the customer more than what the utility would have and the ESCO is required to provide a credit to the customer. The amount may be echoed back on the Utility Accept Response transaction, at the option of the Utility, to confirm the one-time credit amount. Note that GSP Credits were formerly known as APP or EPA Credits. GSP Credits are a type of ESCO Pricing Adjustment.

Additionally, at utilities providing Bill Ready Consolidated customer bills, in cases where the ESCO issuing the credit is no longer serving the customer (and therefore no monthly usage is available for that ESCO), unless the Utility has specified a non-EDI process in its Utility Maintained EDI Guide, this segment should be used by the ESCO.

The utility will use this segment to apply a one-time credit to the customer's bill. This credit will be reflected in the 810 issued by a rate ready utility that is sent to the ESCO for the period where the credit was applied. This credit, when received via the AMT*7 segment, will be reflected in the 820 issued by a rate ready utility, or by a bill ready utility if the ESCO is no longer serving the customer, for the period where the credit was applied.

The 814 Change must be sent to the utility at least 4 business days prior to the scheduled meter read date in order to be included in the rate ready calculation for that bill period. In the event the 814 Change is not sent in time, the utility may hold the transaction for the next billing cycle or reject the 814 Change. If utility cannot issue a bill to the customer because the account is inactive, the Utility will reject the 814 Change and the ESCO is responsible for directly reimbursing the customer.

AMT~7~-2.15

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**AMT01**	**522**	**Amount Qualifier Code**		**M ID 1/3**
			7	Discount Amount Due	
				ESCO GSP Credit	
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. See Front Matter notes regarding syntax for real number elements. A GSP Credit shown as a negative amount. Adjustments to reduce prior GSP Credits are shown as positive amounts. For example, if the customer is owed a credit of $2.15, the ESCO would send AMT~7~-2.15. If an ESCO intends to adjust a previously issued GSP Credit to reflect a smaller net credit, it would send AMT~7~1.08, for example.

Segment:	**AMT** Monetary Amount (ESCO Generic Credit)
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:	Utility Request: Not Used
	ESCO Response: Not Applicable
	ESCO Request: Conditional
	Utility Response: Optional

In its Utility Maintained EDI Guide, a utility will indicate if it accepts generic credits to be applied to customer bills. In such cases, this segment is sent by the ESCO to indicate the amount of the generic credit to be included on a Rate Ready Consolidated customer bill. The amount may be echoed back on the Utility Accept Response transaction, at the option of the Utility, to confirm the one-time credit amount.

The utility will use this segment to apply a one-time credit to the customer's bill. This credit will be reflected in the 810 issued by a rate ready utility that is sent to the ESCO for the period where the credit was applied.

The 814 Change must be sent to the utility at least 4 business days prior to the scheduled meter read date in order to be included in the rate ready calculation for that bill period. In the event the 814 Change is not sent in time, the utility may hold the transaction for the next billing cycle or reject the 814 Change. If utility cannot issue a bill to the customer because the account is inactive, the Utility will reject the 814 Change and the ESCO is responsible for directly providing the credit to the customer.

AMT~UJ~-2.15

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	AMT01	522	Amount Qualifier Code	M ID 1/3
			UJ Other Credits	
			ESCO Generic Credit	
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. See Front Matter notes regarding syntax for real number elements. A generic credit is shown as a negative amount. Adjustments to reduce prior generic credits are shown as positive amounts. For example, if the customer is owed a credit of $2.15, the ESCO would send AMT~UJ~-2.15. If an ESCO intends to adjust a previously issued generic credit to reflect a smaller net credit, it would send AMT~UJ~1.08, for example.

Segment:	**AMT** Monetary Amount (Basic HEAP Payment Amount Received)	
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: Utility Request: Not Used
ESCO Response: Not Applicable

ESCO Request: Conditional
Utility Response: Not Used

This segment must be sent by the ESCO billing customers under ESCO Combined Billing when the ESCO receives a Basic (Initial) HEAP Payment.

AMT~B1~121.5

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	AMT01	522	**Amount Qualifier Code**	M ID 1/3
			B1 Benefit Amount	
			Basic (Initial) HEAP Payment	
Mand.	AMT02	782	**Monetary Amount**	M R 1/18

Segment:	**AMT** Monetary Amount (Emergency HEAP Payment Amount Received)	
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:		

Utility Request: Not Used
ESCO Response: Not Applicable

ESCO Request: Conditional
Utility Response: Not Used

This segment must be sent by the ESCO billing customers under ESCO Combined Billing when the ESCO receives an Emergency (Supplemental) HEAP Payment.

AMT~BK~121.5

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	AMT01	522	Amount Qualifier Code		M ID 1/3
			BK	Disbursements for Protection and Preservation Emergency (Supplemental) HEAP Payment	
Mand.	AMT02	782	Monetary Amount		M R 1/18

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:
Utility Request: Conditional
ESCO Response: Optional

ESCO Request: Conditional
Utility Response: Optional

This segment is used to communicate changes at the meter or service end point level. At the Detail Level, all change requests should be grouped by meter in individual LIN Loops, e.g. multiple changes pertaining to the same meter may be sent in one LIN Loop (refer to examples in this implementation guide).

'MA' is used for a meter addition.
'MQ' is used when changes to existing meter data are being sent.
'MX' is used for a meter exchange.
'MR' is used when a meter has been removed but the account will remain active.

A Drop transaction, rather than a Change, will be sent when a meter removal is done coincident with an account termination.

NM1~MA~3~~~~~~32~A1234567   Meter addition (new meter number supplied)
NM1~MQ~3~~~~~~32~A1234567   Change in existing meter or service end point data (when a meter number is being corrected, the corrected meter number is supplied)

NM1~MR~3~~~~~~93~A1234567   Meter removal (removed meter number is supplied or the word "Un-metered")

NM1~MX~3~~~~~~32~A1234567   Meter exchange (new meter number supplied - old meter number sent in a REF*46)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**NM101**	**98**	**Entity Identifier Code**	**M ID 2/3**
			MA	Party for whom Item is Ultimately Intended
				Indicates a Meter Addition. Used when an additional meter is added to a multi-metered account or un-metered account or, when a new meter is added to an active account whose old meter had been recently removed (see the MR code).
			MQ	Metering Location
				Indicates that this NM1 loop contains a change to delivery point or meter related information unrelated to a meter addition, removal, or exchange. Used when a meter service attribute is changed or when erroneous meter numbers are corrected (for corrections, the NM1*MQ is used in conjunction with the REF*46 segment, which is used to send the incorrect meter number).
			MR	Medical Insurance Carrier

				Indicates a Meter Removal. This code is used when: one or more meters are removed from a multi-metered account; an account with a single meter is changed to UNMETERED or; a meter has been removed temporarily but the account remains active and another meter is added.	
			MX	Juvenile Witness	
				Indicates a Meter Exchange. This code value in this segment will be used in conjunction with a REF*46 segment, which will contain the old meter number, when there has been a meter exchange. This would include instances in which a meter is added to a previously un-metered account.	
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 contains a meter number.		
		93	Code assigned by the organization originating the transaction set		
			Use when NM109 is not a meter number.		
Must Use	**NM109**	**67**	**Identification Code**		**X** **AN 2/80**

If NM108 = 32: NM109 will contain the Utility meter number (in conformance with the conditions described above).

If NM108 = 93: NM109 will contain the literal "UNMETERED" (for unmetered accounts) OR the literal "ALL" (used when changes apply to all meters in a multi-metered account).

Segment:	**REF** Reference Identification (Reason for Change - Meter Level)			
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: Utility Request: Conditional
ESCO Response: Optional

ESCO Request: Conditional
Utility Response: Optional

This REF segment is required to identify the data segment that is being changed when changes in data segment(s) sent at the meter level are bring reported.

REF~TD~REFNH

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
		TD	Reason for Change		
Must Use	REF02	127	**Reference Identification**	X	AN 1/30
		NM1MQ	Change Metering Location		
			Use this code when indicating a change in the attributes of an existing meter(s) or un-metered service end points including corrections to meter number(s) previously sent		
		NM1MR	Meter removal		
		NM1MX	Meter exchange		
		NM1MA	Meter addition		
		REFLO	Change Load Profile		
			Use this code to report a change in the Utility's Load Profile Group Code		
		REFMT	Change Meter Type		
			Use this code to report changes in measurement type and/or reporting intervals		
		REFNH	Change Utility Rate Service Class		
		REFPR	Change Utility Rate Sub Class		
		REFRB	Change ESCO Rate Code		
		REFTU	Change Use Time of Day		

Segment:	**REF** Reference Identification (Old Meter Number)	
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:	Utility Request: Conditional	
	ESCO Response: Not Used	
	ESCO Request: Not Used	
	Utility Response: Not Applicable	
	This segment is used when a meter exchange (MX) is being reported. In this situation, the new meter number is sent in the NM1 segment and the old meter number is sent in this REF segment. This segment is also used when a corrected meter number is being communicated.	
	REF~46~123456789	
	REF~46~UNMETERED	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	REF01	128	**Reference Identification Qualifier**	M ID 2/3
			46 Old Meter Number	
			Identifies meters being removed	
Must Use	REF02	127	**Reference Identification**	X AN 1/30
			Old meter number.	

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:
Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Not Used
Utility Response: Not Applicable

This segment is sent by the Utility to report a change in the customer's service class designation.

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 this service delivery point.	
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 (Utility 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:	Utility Request: Conditional	
	ESCO Response: Not Used	
	ESCO Request: Not Used	
	Utility Response: Not Applicable	
	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**
			Provides further clarification of a tariff specified in the REF where REF01=NH.		

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:	Utility Request:	Conditional
	ESCO Response:	Not Used
	ESCO Request:	Not Used
	Utility Response:	Not Applicable
	REF~LO~L01	

Data Element Summary

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

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:

Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Not Used
Utility Response: Not Applicable

This segment is sent to describe the measurement types and reporting intervals associated with the service delivery point(s) identified in the NM109 segment when a meter addition (NM01='MA'), a meter exchange (NM01='MX') or a change in existing meter data (NM01='MQ') is being reported. In some instances, a REF*TU segment may be required in conjunction with the REF*MT to adequately describe the consumption and reporting intervals for specific service end points.

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

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.		
Cond.	**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 when the service delivery point(s) identified in the NM109 is capable of providing different measurement types and/or providing measurements for more than one time period in a day. When the REF*MT segment contains "COMBO" OR usage is being measured in timed intervals (e.g. on peak), multiple REF*TU segments are used to provide the measurement types and the daily time period(s) for each measurement the meter will provide, as well as the reporting intervals used for billing.		

When only one measurement type is applicable to the metered or un-metered service points identified in the NM109 element, 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 used in the last three characters of the REF02 to document the interval capabilities for the metered or un-metered service delivery point(s) identified in the NM109.   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 (e.g. 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:

Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Not Used
Utility Response: Not Applicable

This segment is sent when there is a change in the manner in which usage will be measured on an account due to a meter addition, a meter exchange or a correction to previously reported data AND the "COMBO" code was sent in the REF*MT segment OR usage is measured in time intervals.

REF~TU~51~KHMON } The service point identified in NM109 measures kilowatt
REF~TU~41~KHMON } hours monthly for four time intervals: Total, Off Peak,
REF~TU~42~KHMON } On Peak and Shoulder Peak.
REF~TU~43~KHMON }

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.	
Must Use	REF02	127	**Reference Identification**	X AN 1/30
			41 Off Peak	
			42 On Peak	
			43 Intermediate 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 segment should contain "51". 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 with codes of "41","42" and "51" for the applicable metered service point.

Must Use   **REF03**   **352**   **Description**   **X   AN 1/80**

The REF03 element is used to associate the time of day intervals in REF02 with the measurement type and meter cycle frequency for the meter(s) indicated in the NM109 element.

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
TOU Time of Use

001-999 is used to report the number of minutes in an interval for 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:

Utility Request: Not Used
ESCO Response: Not Applicable

ESCO Request: Conditional
Utility Response: Conditional

This segment must be sent by the ESCO to report a change in the ESCO Rate Code when the bill option is Utility Rate Ready consolidated billing and the ESCO charges are being calculated based on a rate code table.   This segment may be echoed back in Utility Accept Responses at the discretion of the utility.

This segment may be accompanied by a DTM*007 segment to communicate the effective date of the change in Rate Code when the applicable Utility has agreed to process such changes on a date other than the regularly scheduled bill cycle date.

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:	Utility Request: Required	
	ESCO Response: Required	
	ESCO Request: Required	
	Utility Response: Required	
	SE~27~0001	

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

EXAMPLES

These examples are presented for illustrative purposes only. Although they are syntactically correct with respect to the published transaction standard for <u>TS814 Change Request & Response</u>, 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 1A: Utility Change Request – Correct Customer Name

ST*814*0001!	Transaction Set header; transaction defined is an *814*; control number assigned by originator
BGN*13*20060918001*20060918!	Transaction is a *Request*; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*845767011!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006977763!	Utility Name and DUNS number
N1*8R*ALFRED K BROWN!	New Customer Name
LIN*AABBDD001*SH*EL*SH*CE!	Unique transaction reference number, request pertains to electric services
ASI*7*001!	Action is a Change Request
REF*TD*N18R!	Change Reason - Change in Customer Name or Service Address
REF*12*011231287654398!	Utility Account Number
DTM*007*20060918!	Effective Change Date
SE*11*0001!	Transaction Set trailer; segment count; control number

Scenario 1B: ESCO Response to Request to Change Customer Name

ST*814*0003!	Transaction Set header; transaction defined is an *814*; control number assigned by originator
BGN*11*00013415*20060920***20060918001!	Transaction is a *Response*; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*845750011!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006977763!	Utility Name and DUNS number
LIN*AABBDD001*SH*EL*SH*CE!	Unique transaction reference number, response pertains to electric services
ASI*WQ*001!	Accept Request
REF*TD*N18R!	Echo Back Change Reason - Change in Customer Name or Service Address
REF*12*011231287654398!	Utility Account Number
SE*9*0003!	Transaction Set trailer; segment count; control number

Scenario 2A: ESCO Change Request – Change Mailing Address and Telephone Number

ST*814*0002!	Transaction Set header; transaction defined is an *814*; control number assigned by originator
BGN*13*200609185101*20060918!	Transaction is a *Request*; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*845750011!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006982359!	Utility Name and DUNS number
N1*BT*SAMS SHOES C/O A.E.JONES, CPA!	New Name for Mailing
N3*237 WEST 35 ST 16FL!	New Mailing Address – Street
N4*NEW YORK*NY*10001-1905!	New Mailing Address – City, State, Postal Code
PER*IC**TE*2125556271!	New Telephone Number
LIN*AC2006089A*SH*EL*SH*CE!	Unique transaction reference number, request pertains to electric service
ASI*7*001!	Action is a Change Request
REF*TD*N1BT!	Change Reason – Change in Name for Mailing, Mailing Address or Mailing Address Contact Info
REF*12*994102162510009!	Utility Account Number
SE*13*0002!	Transaction Set trailer; segment count; control number

2. B. Response(s) to Request to Change Mailing Address and Telephone Number

ST*814*0004!	Transaction Set header; transaction defined is an *814*; control number assigned by originator
BGN*11*00056799*20060920***200609185101!	Transaction is a *Response*; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*845750011!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006982359!	Utility Name and DUNS number
LIN*AC2006089A*SH*EL*SH*CE!	Unique transaction reference number for the request, response pertains to electric service
ASI*WQ*001!	Accept Request
REF*TD*N1BT!	Echo Back Change Reason – Change in Name for Mailing, Mailing Address or Mailing Address Contact Info
REF*12*994102162510009!	Utility Account Number
DTM*007*20060920!	Effective Date of Change
SE*10*0004!	Transaction Set trailer; segment count; control number

Scenario 3A: Utility Request – Meter Exchange: Change Meter Read Cycle, Bill Cycle, Rate Service Class, Measurement Type

ST*814*0005!	Transaction Set header; transaction defined is an **814**; control number assigned by originator
BGN*13*10000301145101*20060918!	Transaction is a **Request**; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*845750011!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*848068529!	Utility Name and DUNS number
LIN*ABC001*SH*GAS*SH*CE!	Unique transaction reference number, change pertains to gas services
ASI*7*001!	Action is a Change Request
REF*TD*REF65!	Change Reason Code – Change in Meter Cycle Code
REF*12*3754464703!	Utility Account Number
REF*65*15*MON!	New Meter Cycle Code and Frequency
DTM*007*20061015!	Effective Date of Change
LIN*ABC002*SH*GAS*SH*CE!	2nd LIN Request
ASI*7*001!	Action is a Change Request
REF*TD*REFBF!	Change Reason - Change in Bill Cycle Code
REF*12*3754464703!	Utility Account Number
REF*BF*15*MON!	New Bill Cycle Code and Frequency
DTM*007*20061015!	Effective Date of Change
LIN*ABC003*SH*GAS*SH*CE!	3rd LIN Request
ASI*7*001!	Action is a Change Request
REF*12*3754464703!	Utility Account Number
DTM*007*20061015!	Effective Date of Change
NM1*MX*3******32*00926770!	Start of Meter Attribute Change Loop; New Meter Number
REF*TD*NM1MX!	Change Reason - Meter Exchange
REF*TD*REFMT!	Change Reason – Change in measurement type
REF*TD*REFNH!	Change Reason – Change in Utility Rate Service Class
REF*46*000527469!	Meter Number for the meter that was removed
REF*NH*170!	New Rate Service Class
REF*MT*HHMON!	New Measurement Type
SE*28*0005!	Transaction Set trailer; segment count; control number

Scenario 3B: ESCO Response to Meter Exchange Request

ST*814*0006!	Transaction Set header; transaction defined is an **814**; control number assigned by originator
BGN*11*10000402072435*20060920***10000301 145101!	Transaction is a **Response**; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*845750011!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*848068529!	Utility Name and DUNS number
LIN*ABC001*SH*GAS*SH*CE!	Unique transaction reference number for the request, response pertains to gas services
ASI*WQ*001!	Accept Request
REF*12*3754464703!	Utility Account Number
LIN*ABC002*SH*GAS*SH*CE!	2nd LIN Request
ASI*WQ*001!	Accept Request
REF*12*3754464703!	Utility Account Number
LIN*ABC003*SH*GAS*SH*CE!	3rd LIN Request
ASI*WQ*001!	Accept Request
REF*12*3754464703!	Utility Account Number
SE*14*0006!	Transaction Set trailer; segment count; control number

Scenario 4A: ESCO Request: Change Bill Option from Dual to Utility Rate Ready Consolidated

ST*814*0001!	Transaction Set header; transaction defined is an ***814***; control number assigned by originator
BGN*13*20060918058*20060918!	Transaction is a ***Request***; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*845750011!	ESCO Name & DUNS number
N1*8S*UTILITY NAME*1*006994708!	Utility Name & DUNS number
N1*8R*HICKORY VILLAGE!	ESCO Customer Name
LIN*20060918A051*SH*GAS*SH*CE!	Unique transaction reference number, change pertains to gas service
ASI*7*001!	Action is a Change Request
REF*TD*REFBLT!	Change Reason Code – Change Bill Presenter
REF*11*A12345009Z!	ESCO Account Number for the Customer
REF*12*5219350004!	Utility Account Number for the Customer
REF*BLT*LDC!	New Bill Presenter is Utility
LIN*20060918A052*SH*GAS*SH*CE!	**2ⁿᵈ LIN Request**
ASI*7*001!	Action is a Change Request
REF*TD*REFPC!	Change Reason Code – Change Bill Calculator
REF*12*5219350004!	Utility Account Number for the Customer
REF*PC*LDC!	New Bill Calculator is Utility
LIN*20060918A053*SH*GAS*SH*CE!	**3ʳᵈ LIN Request**
ASI*7*001!	Action is a Change Request
REF*TD*REFNR!	Change Reason Code – Change Budget Bill Status
REF*12*5219350004!	Utility Account Number for the Customer
REF*NR*Y!	Customer is on budget billing for senders charges
LIN*20060918A054*SH*GAS*SH*CE!	**4ᵗʰ LIN Request**
ASI*7*001!	Action is a Change Request
REF*12*5219350004!	Utility Account Number
REF*TD*AMT9M!	Change Reason Code – Change Customers Tax Rate for ESCO Charges
AMT*9M*.045!	Tax Rate Used to Calculate Taxes Applicable to ESCO Charges
LIN*20060918A055*SH*GAS*SH*CE!	**5ᵗʰ LIN Request**
ASI*7*001!	Action is a Change Request
REF*12*5219350004!	Utility Account Number
NM1*MQ*3******93*ALL!	Start of Meter Attribute Change Loop; Change pertains to all existing meters on this account
REF*TD*REFRB!	Change Reason Code – Change ESCO Rate Code
REF*RB*R23X40!	New ESCO Rate Code
SE*33*0001!	Transaction Set trailer; segment count; control number

4. B. Utility Response – Accept Change in Bill Presenter, Bill Calculator, Tax Rate & ESCO Rate Code; Reject Budget Bill Change

`ST*814*0002!`	Transaction Set header; transaction defined is an **814**; control number assigned by originator
`BGN*11*10000402072434*20060920***20060918 058!`	Transaction is a **Response**; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
`N1*SJ*ESCO NAME*1*845750011!`	ESCO Name and DUNS number
`N1*8S*UTILITY NAME*1*006994708!`	Utility Name and DUNS number
`LIN*20060918A051*SH*GAS*SH*CE!`	Unique transaction reference number for the request, response pertains to gas service
`ASI*WQ*001!`	Accept Change Request
`REF*TD*REFBLT!`	Echo Back Reason for Change – Change Bill Presenter
`REF*11*A12345009Z!`	ESCO Account Number for the Customer
`REF*12*5219350004!`	Utility Account Number for the Customer
`DTM*007*20061008!`	Effective Date of Change
`LIN*20060918A052*SH*GAS*SH*CE!`	**2ⁿᵈ LIN Response**
`ASI*WQ*001!`	Accept Change Request
`REF*TD*REFPC!`	Echo Back Reason for Change – Change Bill Calculator
`REF*12*5219350004!`	Utility Account Number for the Customer
`DTM*007*20061008!`	Effective Date of Change
`LIN*20060918A053*SH*GAS*SH*CE!`	**3ʳᵈ LIN Response**
`ASI*U*001!`	Reject Change Request
`REF*7G*A13*BUDGET BILL NOT OFFERED!`	Reason Request was Rejected
`REF*TD*REFNR!`	Echo Back Reason for Change – Change Budget Billing Status
`REF*12*5219350004!`	Utility Account Number for the Customer
`LIN*20060918A054*SH*GAS*SH*CE!`	**4ᵗʰ LIN Response**
`ASI*WQ*001!`	Accept Change Request
`REF*12*5219350004!`	Utility Account Number for the Customer
`DTM*007*20061008!`	Effective Date of Change
`AMT*9M*.045!`	Echo Back Reason for Change – Change Customer's Tax Rate for ESCO Charges
`LIN*20060918A055*SH*GAS*SH*CE!`	**5ᵗʰ LIN Response**
`ASI*WQ*001!`	Accept Change Request
`REF*12*5219350004!`	Utility Account Number for the Customer
`DTM*007*20061008!`	Effective Date of Change
`NM1*MQ*3******93*ALL!`	Start of Meter Attribute Change Loop; Change pertains to all existing meters on this account
`REF*TD*REFRB!`	Echo Back Change Reason – ESCO Rate Code
`REF*RB*R23X40!`	Echo Back ESCO Rate Code
`SE*33*0002!`	Transaction Set trailer; segment count; control number

Scenario 5A: ESCO Change Request: Change ESCO Commodity Price & Fixed Charge
Effective Date is Mid-cycle

ST*814*0003!	Transaction Set header; transaction defined is an **814**; control number assigned by originator
BGN*13*40000301145101*20060918!	Transaction is a **Request**; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*845750011!	ESCO Name & DUNS number
N1*8S*UTILITY NAME*1*006994708!	Utility Name & DUNS number
LIN*AACCDD01004A*SH*EL*SH*CE!	Unique transaction reference number, change pertains to electric service
ASI*7*001!	Action is a Change Request
REF*TD*AMTRJ!	Change Reason Code – Change ESCO Commodity Price
REF*11*A12345009Z!	ESCO Account Number for the Customer
REF*12*5219350004!	Utility Account Number for the Customer
DTM*007*20061001!	Effective Date is Mid-Cycle
AMT*RJ*.018!	New ESCO Commodity Price
LIN*AACCDD01005A*SH*EL*SH*CE!	**2nd LIN Request**
ASI*7*001!	Action is a Change Request
REF*TD*AMTFW!	Change Reason Code – Change ESCO Fixed Charge
REF*11*A12345009Z!	ESCO Account Number for the Customer
REF*12*5219350004!	Utility Account Number for the Customer
DTM*007*20061001!	Effective Date is Mid-Cycle
AMT*FW*2.25!	New Fixed Charge Amount
SE*19*0003!	Transaction Set trailer; segment count; control number

Scenario 5B: a. Utility Response: Accept Change in Commodity Price & Fixed Charge;
Set New Effective Date

ST*814*0004!	Transaction Set header; transaction defined is an **814**; control number assigned by originator
BGN*11*0123456*20060920***40000301145101!	Transaction is a **Response**; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*845750011!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006994708!	Utility Name & DUNS number
LIN*AACCDD01004A*SH*EL*SH*CE!	Unique transaction reference number for the request, response pertains to electric service
ASI*WQ*001!	Accept Change Request
REF*TD*AMTRJ!	Echo back Reason for Change – Change in ESCO Commodity Price
REF*11*A12345009Z!	ESCO Account Number for the Customer
REF*12*5219350004!	Utility Account Number for the Customer
DTM*007*20061008!	New Effective Date for Change
AMT*RJ*.018!	Echo back Commodity Price Amount
LIN*AACCDD01005A*SH*EL*SH*CE!	Response to 2nd LIN Request
ASI*WQ*001!	Accept Change Request
REF*TD*AMTFW!	Echo back Reason for Change – Change in ESCO Fixed Charge
REF*11*A12345009Z!	ESCO Account Number for the Customer
REF*12*5219350004!	Utility Account Number for the Customer
DTM*007*20061008!	New Effective Date for Change
AMT*FW*2.25!	Echo back Fixed Charge Amount
SE*19*0004!	Transaction Set trailer; segment count; control number

Scenario 5B: b. Utility Response: Reject Change Requests
Will Not Process Off-Cycle Changes

ST*814*0005!	Transaction Set header; transaction defined is an **814**; control number assigned by originator
BGN*11*9797900*20060920***40000301145101!	Transaction is a **Response**; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*845750011!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006994708!	Utility Name & DUNS number
LIN*AACCDD01004A*SH*EL*SH*CE!	Unique transaction reference number for the request, response pertains to electric service
ASI*U*001!	Reject Change Request
REF*7G*A13*OFF CYCLE CHG NOT ALLOWED!	Reject Reason Code & Supplemental text indicating reason for rejection
REF*TD*AMTRJ!	Echo back Reason for Change – Change in ESCO Commodity Price
REF*11*A12345009Z!	ESCO Account Number for the Customer
REF*12*5219350004!	Utility Account Number for the Customer
LIN*AACCDD01005A*SH*EL*SH*CE!	Response to 2nd LIN Request
ASI*7*001!	Reject Change Request
REF*7G*A13*OFF CYCLE CHG NOT ALLOWED!	Reject Reason Code & Supplemental text indicating reason for rejection
REF*TD*AMTFW!	Echo back Reason for Change – Change in ESCO Fixed Charge
REF*11*A12345009Z!	ESCO Account Number for the Customer
REF*12*5219350004!	Utility Account Number for the Customer
SE*17*0005!	Transaction Set trailer; segment count; control number

Scenario 6: Utility Change Request: Change Customer Account Number; Change Meter Cycle; Change Bill Cycle on a Combination Account

Gas Account:

ST*814*0006!	Transaction Set header; transaction defined is an **814**; control number assigned by originator
BGN*13*200609180001*20060918!	Transaction is a **Request**; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*845750011!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006977763!	Utility Name and DUNS number
N1*8R*WALLMART #56!	Customer Name
N3*21 VERNETH DRIVE!	Customer Service Address – Street
N4*BINGHAMTON*NY*13901!	Customer Service Address – City, State, Postal Code
LIN*00101*SH*GAS*SH*CE!	Unique transaction reference number, change pertains to gas services
ASI*7*001!	Action is a Change Request
REF*TD*REF12!	Change Reason Code – Change in Utility Account Number
REF*11*A1234009Z!	ESCO Account Number for the Customer
REF*12*158103080400027!	New Utility Account Number for Customer
REF*45*158100980400027!	Old Utility Account Number for Customer
DTM*007*20060918!	Effective Date of Change
LIN*00102*SH*GAS*SH*CE!	**2ⁿᵈ LIN Request**
ASI*7*001!	Action is a Change Request
REF*TD*REF65!	Change Reason Code – Change Meter Cycle Code & Frequency
REF*11*A1234009Z!	ESCO Account Number for the Customer
REF*12*158103080400027!	New Utility Account Number for the Customer
REF*65*15*MON!	Meter Cycle Code & Frequency
DTM*007*20060918!	Effective Date of Change
LIN*00103*SH*GAS*SH*CE!	**3ʳᵈ LIN Request**
ASI*7*001!	Action is a Change Request
REF*TD*REFBF!	Change Reason Code – Change Bill Cycle Code & Frequency
REF*11*A1234009Z!	ESCO Account Number for the customer
REF*12*158103080400027!	New Utility Account Number for the customer
REF*BF*15*MON!	Bill Cycle Code & Frequency
DTM*007*20060918!	Effective Date of Change
SE*29*0006!	Transaction Set trailer; segment count; control number

Electric Account:

ST*814*0007!	Transaction Set header; transaction defined is an *814*; control number assigned by originator
BGN*13*200609180002*20060918!	Transaction is a *Request*; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*845750011!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006977763!	Utility Name and DUNS number
N1*8R*WALLMART #56!	Customer Name
N3*21 VERNETH DRIVE!	Customer Service Address – Street
N4*BINGHAMTON*NY*13901!	Customer Service Address – City, State, Postal Code
LIN*00104*SH*EL*SH*CE!	Unique transaction reference number, change pertains to electric service
ASI*7*001!	Action is a Change Request
REF*TD*REF12!	Change Reason Code – Change in Utility Account Number
REF*11*A1234009Z!	ESCO Account Number for the Customer
REF*12*158103080400027!	New Utility Account Number for Customer
REF*45*158100980400027!	Old Utility Account Number for Customer
DTM*007*20060918!	Effective Date of Change
LIN*00105*SH*EL*SH*CE!	2nd LIN Request
ASI*7*001!	Action is a Change Request
REF*TD*REF65!	Change Reason Code – Change Meter Cycle Code & Frequency
REF*11*A1234009Z!	ESCO Account Number for the Customer
REF*12*158103080400027!	New Utility Account Number for Customer
REF*65*15*MON!	Meter Cycle Code & Frequency
DTM*007*20060918!	Effective Date of Change
LIN*00106*SH*EL*SH*CE!	3rd LIN Request
ASI*7*001!	Action is a Change Request
REF*TD*REFBF!	Change Reason Code – Change Bill Cycle Code & Frequency
REF*11*A1234009Z!	ESCO Account Number for the Customer
REF*12*158103080400027!	New Utility Account Number for Customer
REF*BF*15*MON!	Bill Cycle Code & Frequency
DTM*007*20060918!	Effective Date of Change
LIN*00107*SH*EL*SH*CE!	4th LIN Request
ASI*7*001!	Action is a Change Request
REF*TD*REFTX!	Change Reason Code – Utility Tax Exempt Status
REF*11*A1234009Z!	ESCO Account Number for the Customer
REF*12*158103080400027!	New Utility Account Number for Customer
REF*TX*Y!	Utility Tax Exempt Status
DTM*007*20060918!	Effective Date of Change
SE*29*0006!	Transaction Set trailer; segment count; control number

Scenario 7A: Utility Change Request – Add/Update Telephone Number

ST*814*0001!	Transaction Set header; transaction defined is an *814*; control number assigned by originator
BGN*13*20060918001*20060918!	Transaction is a *Request*; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*625401997!	ESCO Name and DUNS number
N1*8S*CENTRAL HUDSON GAS & ELEC CORP*1*006993695!	Utility Name and DUNS number
N1*8R*JOHN SMITH!	Customer Name
PER*IC**TE*8455551111!	Customer Telephone Number
LIN*0099*SH*EL*SH*CE!	Unique transaction reference number, request pertains to electric services
ASI*7*001!	Action is a Change Request
REF*TD*N18R!	Change Reason - Change in Service Address Contact Info Customer Telephone Number
REF*12*6157324112!	Utility Account Number for Customer
DTM*007*20060918!	Effective Change Date
SE*12*0001!	Transaction Set trailer; segment count; control number

Scenario 7B: ESCO Response to Change Telephone Number

ST*814*0083!	Transaction Set header; transaction defined is an *814*; control number assigned by originator
BGN*11*00013415*20060920***20060918001!	Transaction is a *Response*; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*625401997!	ESCO Name and DUNS number
N1*8S*CENTRAL HUDSON GAS & ELEC CORP*1*006993695!	Utility Name and DUNS number
LIN*0099*SH*EL*SH*CE!	Unique transaction reference number, response pertains to electric services
ASI*WQ*001!	Accept Request
REF*TD*N18R!	Echo Back Change Reason - Change in Service Address Contact Info Customer Telephone Number
REF*12*6157324112!	Utility Account Number for Customer
SE*9*0083!	Transaction Set trailer; segment count; control number

Scenario 8A: Utility Change Request – Change Service Period Start Date

ST*814*0001!	Transaction Set header; transaction defined is an *814*; control number assigned by originator
BGN*13*20060705099*20060705!	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
LIN*9158*SH*EL*SH*CE!	Unique transaction reference number, request pertains to electric services
ASI*7*001!	Action is a Change Request
REF*12*0941235550!	Utility assigned account number for the customer
REF*TD*DTM150!	Change Reason – Change Service Period Start Date
DTM*150*20060721!	New Service Period Start Date
SE*10*0001!	Transaction Set trailer; segment count; control number

Scenario 8B: ESCO Response to Change of Service Period Start Date

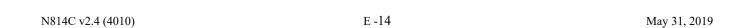|	
ST*814*0001!	Transaction Set header; transaction defined is an *814*; control number assigned by originator
BGN*11*001266489*20060707***20060705099!	Transaction is a *Response*; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*006817952!	ESCO Name and DUNS number
N1*8S*ORANGE & ROCKLAND*24*231234567!	Utility Name and DUNS number
LIN*9158*SH*EL*SH*CE!	Unique transaction reference number, response pertains to electric services
ASI*WQ*001!	Accept Request
REF*12*0941235550!	Utility assigned account number for the customer
SE*8*0001!	Transaction Set trailer; segment count; control number

Scenario 9A: ESCO Change Request: GSP Credit

ST*814*0003!	Transaction Set header; transaction defined is an ***814***; control number assigned by originator
BGN*13*40000301145101*20060918!	Transaction is a ***Request***; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*845750011!	ESCO Name & DUNS number
N1*8S*UTILITY NAME*1*006994708!	Utility Name & DUNS number
LIN*AACCDD01004A*SH*EL*SH*CE!	Unique transaction reference number, change pertains to electric service
ASI*7*001!	Action is a Change Request
REF*TD*AMT7!	Change Reason Code – GSP Credit
REF*11*A12345009Z!	ESCO Account Number for the Customer
REF*12*5219350004!	Utility Account Number for the Customer
AMT*7*-2.15!	GSP Credit Amount
SE*11*0003!	Transaction Set trailer; segment count; control number

Scenario 9B: a. Utility Response: Accept GSP Credit

ST*814*0004!	Transaction Set header; transaction defined is an ***814***; control number assigned by originator
BGN*11*0123456*20060920***40000301145101!	Transaction is a ***Response***; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*845750011!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006994708!	Utility Name & DUNS number
LIN*AACCDD01004A*SH*EL*SH*CE!	Unique transaction reference number for the request, response pertains to electric service
ASI*WQ*001!	Accept Change Request
REF*TD*AMT7!	Echo back Reason for Change – Change in ESCO Commodity Price
REF*11*A12345009Z!	ESCO Account Number for the Customer
REF*12*5219350004!	Utility Account Number for the Customer
SE*10*0004!	Transaction Set trailer; segment count; control number

Scenario 9B: b. Utility Response: Reject GSP Credit
Customer Moved

ST*814*0005!	Transaction Set header; transaction defined is an ***814***; control number assigned by originator
BGN*11*9797900*20060920***40000301145101!	Transaction is a ***Response***; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*845750011!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006994708!	Utility Name & DUNS number
N1*BT*CUSTOMER NAME!	Customer's Forwarding Address Name
N3*123 MAIN ST!	Forwarding Address
N4*ANYTOWN*NY*14999!	Forwarding City and State
LIN*AACCDD01004A*SH*EL*SH*CE!	Unique transaction reference number for the request, response pertains to electric service
ASI*U*001!	Reject Change Request
REF*7G*MOV!	Reject Reason Code
REF*TD*AMT7!	Echo back Reason for Change – GSP Credit
REF*11*A12345009Z!	ESCO Account Number for the Customer
SE*13*0005!	Transaction Set trailer; segment count; control number

Scenario 10: ICAP Tag Change Example

ST*814*0001!	Transaction Set header; transaction defined is an **814**; control number assigned by originator
BGN*13*010276641*20150908!	Transaction is a **Request**; Unique id number for this transaction; transaction creation date;
N1*SJ*ESCO NAME*1*888888888!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006977763!	Utility Name & DUNS number
LIN*010276642*SH*EL*SH*CE!	Unique transaction reference number for the request, response pertains to electric service
ASI*7*001!	Change Request
REF*11*A12345009Z!	ESCO Account Number for the Customer
REF*12*5219350004!	Utility Account Number for the Customer
REF*TD*AMTKZ!	Change Reason – ICAP Tag Change
DTM*AB2****RD8*20150501-20160430!	Range of Effective Dates for ICAP Tag
AMT*KZ*2.1555486*D!	ICAP Tag with no Special Program Adjustment Indicator
SE*12*0001!	Transaction Set trailer; segment count; control number

Scenario 11: ESCO Combined Billing (Single Retailer transaction) – Basic (Initial) HEAP Payment Received

ST*814*0001!	Transaction Set header; transaction defined is an **814**; control number assigned by originator
BGN*13*010276641*20180108!	Transaction is a **Request**; Unique id number for this transaction; transaction creation date;
N1*SJ*ESCO NAME*1*888888888!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006977763!	Utility Name & DUNS number
LIN*010276642*SH*EL*SH*CE!	Unique transaction reference number for the request, response pertains to electric service
ASI*7*001!	Change Request
REF*11*A12345009Z!	ESCO Account Number for the Customer
REF*12*5219350004!	Utility Account Number for the Customer
REF*TD*AMTB1!	Change Reason – Basic HEAP Payment
DTM*007*20180107!	Date Basic HEAP Payment Received
AMT*B1*174.25!	Basic HEAP Payment Amount
SE*12*0001!	Transaction Set trailer; segment count; control number