New York Implementation Standard

For

Standard Electronic Transactions

FILED

TRANSACTION SET

814

Change (Account Maintenance)

Ver/Rel 004010

		Summary of Changes
November 1, 2001 Version 1.0		**Initial Release**
April 16, 2002 Version 1.1		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		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		**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.

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		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**		**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**		**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

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April 7, 2015 **Version 1.6**		**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**		**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**		**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.

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		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.

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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.

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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.

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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.

REF~12~011231287654398

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

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 acc number for the customer.		
Must Use	**REF02**	**127**	**Reference Identification**			**AN 1/30**
			Utility assigned customer account number The utility account number must be suppli 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
10	010	ST	Transaction Set Header	M	1		
11	020	BGN	Beginning Segment	M	1		
			LOOP ID - N1			1	
12	040	N1	Name (ESCO)	O	1		
			LOOP ID - N1			1	
13	040	N1	Name (Utility)	O	1		
			LOOP ID - N1			1	
14	040	N1	Name (Customer)	O	1		
15	060	N3	Address Information (Service Address)	O	1		
16	070	N4	Geographic Location (Service Address)	O	1		
17	080	PER	Administrative Communications Contact (Customer Phone Number)	O	1		
			LOOP ID - N1			1	
19	040	N1	Name (Name for Mailing)	O	1		
20	060	N3	Address Information (Mailing Address)	O	1		
21	070	N4	Geographic Location (Mailing Address)	O	1		
22	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	
23	010	LIN	Item Identification	O	1		
24	020	ASI	Action or Status Indicator	O	1		
25	030	REF	Reference Identification (Reject Response Reasons)	O	1		
26	030	REF	Reference Identification (Reason for Change - Account Level)	O	1		
27	030	REF	Reference Identification (ESCO Customer Account Number)	O	1		
29	030	REF	Reference Identification (Utility Account Number)	O	1		
30	030	REF	Reference Identification (Previous Utility Account Number)	O	1		
31	030	REF	Reference Identification (Utility Account Number for ESCO)	O	1		
32	030	REF	Reference Identification (Meter Cycle Code)	O	1		
33	030	REF	Reference Identification (Bill Cycle Code)	O	1		
34	030	REF	Reference Identification (Bill Presenter)	O	1		
35	030	REF	Reference Identification (Bill Calculator)	O	1		

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36	030	REF	Reference Identification (Current Budget Billing Status)	O	1	
37	030	REF	Reference Identification (ESCO Late Fees)	O	1	
38	030	REF	Reference Identification (Partial Participation Portion)	O	1	
39	030	REF	Reference Identification (Customer on Life Support)	O	1	
40	030	REF	Reference Identification (Gas Pool ID)	O	1	
41	030	REF	Reference Identification (Gas Capacity Assignment/Obligation)	O	1	
42	030	REF	Reference Identification (ISO Location Based Marginal Pricing Zones)	O	1	
43	030	REF	Reference Identification (Portion Taxed Residential)	O	1	
44	030	REF	Reference Identification (Account Settlement Indicator)	O	1	
45	030	REF	Reference Identification (NYPA Discount Indicator)	O	1	
46	030	REF	Reference Identification (Utility Discount Indicator)	O	1	
47	030	REF	Reference Identification (Industrial Classification Code)	O	1	
48	030	REF	Reference Identification (Tax Exempt Status)	O	1	
49	040	DTM	Date/Time Reference (Effective Date of Change)	O	1	
50	040	DTM	Date/Time Reference (Assigned Service Start Date)	O	1	
51	040	DTM	Date/Time Reference (Assigned Service End Date)	O	1	
52	040	DTM	Date/Time Reference (ICAP Effective Date)	O	1	
53	060	AMT	Monetary Amount (ESCO Budget Plan Installment Amount)	O	1	
54	060	AMT	Monetary Amount (Tax Exemption Percent)	O	1	
55	060	AMT	Monetary Amount (ESCO Commodity Price)	O	1	
56	060	AMT	Monetary Amount (ESCO Fixed Charge)	O	1	
57	060	AMT	Monetary Amount(Customer's Tax Rate for ESCO Charges -1)	O	1	
58	060	AMT	Monetary Amount(Customer's Tax Rate for ESCO Charges -2)	O	1	
59	060	AMT	Monetary Amount (ICAP)	O	1	
60	060	AMT	Monetary Amount (Assistance Program Participation Credit)	O	1	
			LOOP ID - NM1			>1
61	080	NM1	Metered or UnMetered Service Points	O	1	
63	130	REF	Reference Identification (Reason for Change - Meter Level)	O	>1	
64	130	REF	Reference Identification (Old Meter Number)	O	1	
65	130	REF	Reference Identification (Utility Rate Service Class)	O	1	
66	130	REF	Reference Identification (Utility Rate Sub Class)	O	1	
67	130	REF	Reference Identification (Utility Load Profile Group Code)	O	1	
68	130	REF	Reference Identification (Measurement Type and Reporting Interval)	O	1	
70	130	REF	Reference Identification (Use Time of Day)	O	>1	
72	130	REF	Reference Identification (ESCO Rate Code)	O	1	
73	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.

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Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Notes: Request: Required
Response: Required
ST~814~0001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**ST01**	**143**	**Transaction Set Identifier Code** 814 General Request, Response or Confirmation	**M**	**ID 3/3**
Mand.	**ST02**	**329**	**Transaction Set Control Number** Identifying control number assigned by the originator of a transaction set. This identifier must be unique for each transaction set within a functional group.	**M**	**AN 4/9**

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

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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**BGN01**	**353**	**Transaction Set Purpose Code** 11 Response 13 Request	**M**	**ID 2/2**
Mand.	**BGN02**	**127**	**Reference Identification** 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.	**M**	**AN 1/30**
Mand.	**BGN03**	**373**	**Date** The date the transaction was created by the sender's applications system in the form CCYYMMDD.	**M**	**DT 8/8**
Cond.	**BGN06**	**127**	**Reference Identification** Refers to the BGN02 identification number of the original Request. This element is "Not Used" on Request transactions but is "Required" on Response transactions.	**O**	**AN 1/30**

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Segment: **N1** **Name (ESCO)**
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Notes: Request: Required
Response: Required
N1~SJ~~24~123456789
N1~SJ~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			

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Segment: **N1** **Name (Utility)**
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Notes: Request: Required
Response: Required
N1~8S~~24~012345678
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			

FINAL

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:

Request: Conditional
Response: Not Used

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'.		

FILED

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
Responses: Not Used

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** Customer Service Address	**M**	**AN 1/55**
Cond.	**N302**	**166**	**Address Information** Service address overflow	**O**	**AN 1/55**

FILED

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
Responses: Not Used

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**
Must Use	**N403**	**116**	**Postal Code**	**O**	**ID 3/15**

FILED

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:

Requests: Conditional
Responses: Not Used

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 PERIC 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.			

FILED

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:

Request : Conditional
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 an APP 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".		

FILED

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:

Request: Conditional
Responses: 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 an APP 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** Mailing Address for Billing	**M**	**AN 1/55**
Cond.	**N302**	**166**	**Address Information** Mailing Address for Billing Overflow	**O**	**AN 1/55**

FILE

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: Request: Conditional
Response: Not used

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 an APP 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
ESCO response: Not Applicable

ESCO request: Conditional
Utility response: Not Used

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 PERIC 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).			

FINAL

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

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: Request: Required
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		

FILED

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

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 codes 008, ECB or MOV are used to reject AMT7 (Assistance Program Participation 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	Customer billed using ESCO Combined Billing model		
			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		
			W05	Requested rate not found		
Cond.	**REF03**	**352**	**Description**		**X**	**AN 1/80**
			Used to provide explanatory text for an A13 or API reject code.			

FILE

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:
Request: Conditional
Response: Optional

This segment is used to identify the data segment(s) sent at the account level that are being changed. See page 48 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

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 Assistance Program Participation Credit Used to report a credit to the customer's account when the ESCO has charged an Assistance Program Participant more than what the customer would have paid the utility and the ESCO is required to provide a credit to the customer. 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.		
			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.		
			AMTDP	Change Percentage of Service Tax Exempt		

FILED

AMTFW	Change ESCO Fixed Charge
AMTKZ	Change ICAP
	ELECTRIC Service Only.
AMTRJ	Change ESCO Commodity Price
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
N18R	Change Name or Service Address
	Use this code when the name on the account is being changed and/or a change of service address is being reported.
N1BT	Change Name for Mailing or Mailing Address
	Use this code when the name for mailing and/or the mailing address is being changed.
PERIC	Change Information Contact Information
	Use this code when reporting a change in the Customer's Telephone Number in an N1 (Customer) or N1 (Name for Mailing) Loop.
REF11	Change ESCO Customer Account Number
REF12	Change Utility Account Number
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
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

FILED

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** 11 Account Number Number identifies a telecommunications industry account REF02 is the ESCO Assigned account number for the customer.	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** ESCO Marketer's assigned account number for the customer.	**X AN 1/30**

FILED

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:
Request: Required
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** 12 Billing Account Account number under which billing is rendered REF02 contains the Utility-assigned account number for the customer.	**M**	**ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** 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)	**X**	**AN 1/30**
Cond.	**REF03**	**352**	**Description** 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	**X**	**AN 1/80**

FILED

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

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.		

FILED

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 Requests: Conditional
Responses: Conditional

This segment is sent to report a change in the utility assigned account number for the ESCO.

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			

FILED

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** Meter Cycle Code 65 Total Order Cycle Number	**M**	**ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** 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.	**X**	**AN 1/30**
Cond.	**REF03**	**352**	**Description** 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	**X**	**AN 1/80**

FINAL

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		

FILES

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 (pages i - iv) for further instructions.

This segment is not applicable to the Single Retailer Model.

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

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			BLT	Billing Type 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 REF03 must be sent when the ESCO will be the bill presenter under the "NY Billing Agency" model as defined in the NY Uniform Business Rules.		
			LDC	Utility is the consolidated Bill Presenter		
Cond.	**REF03**	**352**	**Description**		**X**	**AN 1/80**
			The literal 'AGENT' must appear in the REF03 when a NY Billing agency model applies to an account.			

FILE

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.

Not used in Single Retailer Model.

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: The ESCO is the Bill Presenter (REF*BLT= ESP) AND the utility will send an 810 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.		

FILE

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.	

FINAL

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 Used

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.		

FILE

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
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		

FILED

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:
Request: Conditional
Response: Not Used

ESCO must report a change in an electric customer's life support status for the Single Retailer Model.
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		

FILED

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.			

FILED

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: Conditional (used if supported by the Utility)~~
~~Utility Response: Not Used~~

GAS ONLY. This segment is provided to the ESCO by the Utility~~used~~ 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. ~~A change in pipeline capacity arrangements can only be sent during the non-heating season.~~

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 ~~elects, or~~ must~~,~~ arrange for capacity for the customer being enrolled		
			Y	Yes: ESCO ~~wants, or~~ must take~~,~~ the Utility release or assignment of its pipeline capacity for the customer		

FILED

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	

FILE

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		

FILED

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: Change Requests: Conditional, for Electric accounts only
Change Accept Responses: Not Used

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.		

FILED

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: Change Requests: Electric accounts, if available in the utility's system and the utility do not otherwise provide the indicator through a non-EDI means.
Change Accept Responses: Not Used

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		

FILED

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: Change Requests: Conditional 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.
Change Accept Responses: Not Used

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		

FILED

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: Change Request: Conditional if available in the utility's system
Change Accept Responses: Not Used

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

Data Element Summary

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

FINAL

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:
Change Requests: Conditional
Change Accept Responses: Not Used

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.		

FILED

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 when the Single Retailer Model is in effect.

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 Request: Not Used
Responses: Not Used

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** 150 Service Period Start	**M**	**ID 3/3**
Must Use	**DTM02**	**373**	**Date** 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.	**X**	**DT 8/8**

FILED

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
Responses: Not Used

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** 151 Service Period End	**M**	**ID 3/3**
Must Use	**DTM02**	**373**	**Date** The date, in form CCYYMMDD, when the customer's service with the enrolled ESCO will end. The Utility will provide the effective end date.	**X**	**DT 8/8**

FILED

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
Utility Response: Not Used

ESCO Request: Not Used
ESCO Response: Not Used

The ICAP tag effective dates should be sent with ICAP Tag changes.

DTM~AB2~~~~RD8~~~~20140601~~20150501~~-~~20150531~~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			

FILED

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: ESCO Request: Conditional
Utility Response: Not Used

Utility Request: Not Used
ESCO 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.		

FINAL

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: ESCO Request: Conditional
Utility Request: Not Used
Responses: 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 Single Retailer Model.

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.			

FILES

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:

ESCO Request: Conditional
ESCO Response: Not Applicable

Utility Request: Not Used
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** RJ Rate Amount ESCO rate for the customer expressed as a monetary amount.	**M**	**ID 1/3**
Mand.	**AMT02**	**782**	**Monetary Amount** 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.	**M**	**R 1/18**

FILE

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

FILED

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:

ESCO Request: Conditional
ESCO Response: Not Applicable

Utility Request: Not Used
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** 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.	**M ID 1/3**
Mand.	**AMT02**	**782**	**Monetary Amount** For percentage values, the whole number "1" will represent 100 percent; decimal numbers less than "1" represent percentages.	**M R 1/18**

FILE

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:

ESCO Request: Conditional
ESCO Response: Not Applicable

Utility Request: Not Used
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.			

FILE

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
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.		

FILE

Segment: **AMT** **Monetary Amount (Assistance Program Participation 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: ESCO Request: Conditional
Utility Request: Not Used
Responses: Not Used

The Order Granting and Denying Petitions for rehearing in Part (issued and effective 2/6/2015) states, "ESCOs have no obligation to serve any customer, however, when an ESCO serves an Assistance Program Participant, the ESCO must satisfy at least one of two conditions. The ESCO must guarantee that the customer will pay no more, on an annual basis, than the customer would have paid as a full service customer of the utility, or the ESCO must provide Assistance Program Participants with energy-related value-added products or services."

This segment must be sent by the ESCO when a credit is necessary 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.

Additionally, at utilities providing Bill Ready Consolidated customer bills, in cases where the ESCO issuing the credit is no longer serving the customer (an 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 will be reflected in the 820 issued by a bill ready utility, or by a rate 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** 7 Discount Amount Due Assistance Program Participation Credit	**M**	**ID 1/3**
Mand.	**AMT02**	**782**	**Monetary Amount** Assistance Program Participation Credit shown as a positive amount. For example, if the customer is owed a credit of $2.15, the ESCO would send AMT~7~2.15.	**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).			

FILED

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:
Request: Conditional
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		

FILED

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** 46 Old Meter Number Identifies meters being removed	**M**	**ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Old meter number.	**X**	**AN 1/30**

FILED

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.)			

FILED

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.			

FILED

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.			

FILED

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.			

FINAL

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.)

FILE

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.		

FILE

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.		

FILE

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.		

FINAL

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

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EXAMPLES

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

Scenario 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

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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 or Mailing Address
REF*12*994102162510009!	Utility Account Number
LIN*AC2006089B*SH*EL*SH*CE!	2nd LIN Request
ASI*7*001!	Action is a Change Request
REF*TD*PERIC!	Change Reason – Change in Customer's Telephone Number
REF*12*994102162510009!	Utility Account Number
SE*17*0002!	Transaction Set trailer; segment count; control number

2. B. Response(s) to Request to Change Mailing Address and Telephone Number (Separate Response transaction for each LIN Request)

a. First Response Transaction:

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 or Mailing Address
REF*12*994102162510009!	Utility Account Number
DTM*007*20060920!	Effective Date of Change
SE*10*0004!	Transaction Set trailer; segment count; control number

FILED

b. Second Response Transaction:

ST*814*0005!	Transaction Set header; transaction defined is an ***814***; control number assigned by originator
BGN*11*20060920048*20060920***20060918510 1!	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*AC2006089B*SH*EL*SH*CE!	Unique transaction reference number for the request, response pertains to electric service
ASI*WQ*001!	Accept Request
REF*TD*PERIC!	Echo back Change Reason – Change in Customer's Telephone Number
REF*12*994102162510009!	Utility Account Number
DTM*007*20060920!	Effective Date of Change
SE*10*0005!	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

FILED

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

FILED

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

FILED

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***20060918058!	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

FILED

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

FILED

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

FILED

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

FILED

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

FILED

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*PERIC!	Change Reason - Change in 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*PERIC!	Echo Back Change Reason - Change in Customer Telephone Number
REF*12*6157324112!	Utility Account Number for Customer
SE*9*0083!	Transaction Set trailer; segment count; control number

FILED

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

FILED

Scenario 9A: ESCO Change Request: APP 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 – APP Credit
REF*11*A12345009Z!	ESCO Account Number for the Customer
REF*12*5219350004!	Utility Account Number for the Customer
AMT*7*2.15!	APP Credit Amount
SE*11*0003!	Transaction Set trailer; segment count; control number

Scenario 9B: a. Utility Response: Accept APP 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

FILED

Scenario 9B: b. Utility Response: Reject APP 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 – APP Credit
REF*11*A12345009Z!	ESCO Account Number for the Customer
SE*13*0005!	Transaction Set trailer; segment count; control number

FILED

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

FILED