Gray Boxed conventions standardized with the 814C IG using the convention:

        Utility Request:
        ESCO Response:

        ESCO Request:
        Utility Response:

TWG Chair Recommendations:

- Make the following segments simply "Required" as they are always required regardless of whether the transaction is a request, response or who the sender is.
    - ST
    - BGN
    - N1 for ESCO
    - N1 for Utility
    - LIN
    - ASI
    - REF*12 - Notice that you have this as not used... the utility account number is ALWAYS required.
    - SE
- N1 for Customer
    - Please change ESCO Request and Response to "Optional". This does not mean the supplier is changing the name, but many suppliers prefer to always keep a name in all transactions.
- Mailing Address is not consistent between all the segments (N1, N3, N4, PER). It seems unlikely that a supplier would send you this information, but if it is expected, then all 4 segments should be consistent.
- REF*7G Rejection Reason
    - ESCO Response should be Required when sending a Reject Response. It is currently showing as Not Applicable, which is not true, the supplier can send a Reject.
- REF*AJ
    - This should be conditional or optional in both directions. I believe some utilities require that it be included? Even if they don't require it on the 814 Change, but do require it on the 814 Enrollment, then the supplier should have the option to send it on all 814s.
- REF*SU
    - Are you sure no utility reports this? I believe some may.
- AMT for budget
    - Move the utility request/response above the ESCO request/response.

814 Change (Account Maintenance)

Functional Group ID=GE

Introduction:

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

Notes:

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

Heading:

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

Detail:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - LIN			>1	
17	010	LIN	Item Identification	O	1		
18	020	ASI	Action or Status Indicator	O	1		
19	030	REF	Reference Identification (Reject Response Reasons)	O	1		
20	030	REF	Reference Identification (Reason for Change - Account Level)	O	1		
23	030	REF	Reference Identification (ESCO Customer Account Number)	O	1		
24	030	REF	Reference Identification (Utility Account Number)	O	1		
25	030	REF	Reference Identification (Previous Utility Account Number)	O	1		
26	030	REF	Reference Identification (Utility Account Number for ESCO)	O	1		
27	030	REF	Reference Identification (Meter Cycle Code)	O	1		
28	030	REF	Reference Identification (Bill Cycle Code)	O	1		
29	030	REF	Reference Identification (Bill Presenter)	O	1		
30	030	REF	Reference Identification (Bill Calculator)	O	1		

31	030	REF	Reference Identification (Current Budget Billing Status)	O	1	
32	030	REF	Reference Identification (ESCO Late Fees)	O	1	
33	030	REF	Reference Identification (Partial Participation Portion)	O	1	
34	030	REF	Reference Identification (Customer on Life Support)	O	1	
35	030	REF	Reference Identification (Gas Pool ID)	O	1	
36	030	REF	Reference Identification (Gas Capacity Assignment/Obligation)	O	1	
37	030	REF	Reference Identification (ISO Location Based Marginal Pricing Zones)	O	1	
38	030	REF	Reference Identification (Portion Taxed Residential)	O	1	
39	030	REF	Reference Identification (Account Settlement Indicator)	O	1	
40	030	REF	Reference Identification (NYPA Discount Indicator)	O	1	
41	030	REF	Reference Identification (Utility Discount Indicator)	O	1	
42	030	REF	Reference Identification (Industrial Classification Code)	O	1	
43	030	REF	Reference Identification (Tax Exempt Status)	O	1	
44	030	REF	Reference Identification (Interval Usage Option)	O	1	
45	030	REF	Reference Identification (APP Status)	O	1	
46	040	DTM	Date/Time Reference (Effective Date of Change)	O	1	
47	040	DTM	Date/Time Reference (Assigned Service Start Date)	O	1	
48	040	DTM	Date/Time Reference (Assigned Service End Date)	O	1	
49	040	DTM	Date/Time Reference (ICAP Effective Date)	O	1	
50	060	AMT	Monetary Amount (ESCO Budget Plan Installment Amount)	O	1	
51	060	AMT	Monetary Amount (Tax Exemption Percent)	O	1	
52	060	AMT	Monetary Amount (ESCO Commodity Price)	O	1	
53	060	AMT	Monetary Amount (ESCO Fixed Charge)	O	1	
54	060	AMT	Monetary Amount(Customer's Tax Rate for ESCO Charges -1)	O	1	
55	060	AMT	Monetary Amount(Customer's Tax Rate for ESCO Charges -2)	O	1	
56	060	AMT	Monetary Amount (ICAP)	O	1	
57	060	AMT	Monetary Amount (ESCO Pricing Adjustment Credit)	O	1	
58	060	AMT	Monetary Amount (ESCO Generic Credit)	O	1	
59	060	AMT	Monetary Amount (Basic HEAP Payment Amount Received)	O	1	
60	060	AMT	Monetary Amount (Emergency HEAP Payment Amount Received)	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	
65	130	REF	Reference Identification (Old Meter Number)	O	1	
66	130	REF	Reference Identification (Utility Rate Service Class)	O	1	
67	130	REF	Reference Identification (Utility Rate Sub Class)	O	1	
68	130	REF	Reference Identification (Utility Load Profile Group Code)	O	1	
69	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.

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

Data Element Summary

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

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

Notes:
Utility Request: Required
ESCO Response: Required

ESCO Request: Required
Utility Response: Required

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

Data Element Summary

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

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

Data Element Summary

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

Segment:	**N1** Name (Utility)
Position:	040
Loop:	N1 Optional (Must Use)
Level:	Heading
Usage:	Optional (Must Use)
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code
Syntax Notes:	1 At least one of N102 or N103 is required.
	2 If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Notes:	Utility Request: Required
	ESCO Response: Required
	ESCO Request: Required
	Utility Response: Required
	N1~8S~~24~012345678
	N1~8S~UTILITY COMPANY~24~912345678

Data Element Summary

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

Segment:	**N1** Name (Customer)	
Position:	040	
Loop:	N1 Optional (Dependent)	
Level:	Heading	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To identify the customer in this transaction.	
Syntax Notes:	1 At least one of N102 or N103 is required.	
	2 If either N103 or N104 is present, then the other is required.	
Semantic Notes:		
Notes:	Utility Request: Conditional	
	ESCO Response: Not Used	
	ESCO Request: Optional	
	Utility Response: Optional	
	This segment must be sent in a Request when a change in the customer name associated with the account (Utility or ESCO) or service address (Utility) or customer telephone number (Utility or ESCO) is being reported.	
	N1~8R~NAME	
	N1~8R~JOHN SMITH	
	N1~8R~DAIMLER-BENZ NA CORP	

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	N101	98	Entity Identifier Code		M	ID 2/3
			8R	Consumer Service Provider (CSP) Customer		
				Identify the end use customer targeted by this transaction.		
Mand.	N102	93	Name		M	AN 1/60
			The new customer name or the literal "NAME".			
			When a change in service address is being sent, an N1 segment (in addition to the N3 and N4 segments) is required. For address changes the N102 element may contain the actual customer name or the literal 'NAME'.			

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

Data Element Summary

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

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

Utility Request: Conditional
ESCO Responses: Not Used

ESCO Request: Not Used
Utility Response: Not Applicable

N4~NY~NY~10152
N4~MYCITY~NY~19123
N4~MYCITY~NY~191230123

Data Element Summary

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

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

	Ref. Des.	Data Element	Name	Attributes	
Must Use	N403	116	Postal Code	O	ID 3/15

Code defining international postal zone code excluding punctuation and blanks
(zip code for United States). Utilities will populate this element only with US
zip code information, unless a utility elects to populate this element with:
•   US zip codes and Canadian or other foreign postal codes.
•   US zip code information only when the mailing address is located
within their service territory.

Segment:	**PER** Administrative Communications Contact (Customer Phone Number)	
Position:	080	
Loop:	N1 Optional (Dependent)	
Level:	Heading	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To identify a person or office to whom administrative communications should be directed	
Syntax Notes:	1 If either PER03 or PER04 is present, then the other is required.	
	2 If either PER05 or PER06 is present, then the other is required.	
	3 If either PER07 or PER08 is present, then the other is required.	
Semantic Notes:		
Notes:	Utility Requests: Conditional	
	ESCO Responses: Not Used	
	ESCO Request: Not Used	
	Utility Response: Not Applicable	

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

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

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

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

PER~IC~~TE~8455551212
PER~IC~~TE~7165551212~FX~8455551234~EM~
CUSTNAME@EMAILSERV.COM
PER~IC~~EM~CUSTNAME@EMAILSERV.COM

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**PER01**	**366**	**Contact Function Code**		**M**	**ID 2/2**
			IC	Information Contact		
Must Use	**PER03**	**365**	**Communication Number Qualifier**		**X**	**ID 2/2**
			EM	Email Address		
			FX	Facsimile		
			TE	Telephone		
				Code identifying the type of communication number/ address for the customer associated with this account.		
Must Use	**PER04**	**364**	**Communication Number**		**X**	**AN 1/80**
			Complete communications number/address according to sender's records.			
Optional	**PER05**	**365**	**Communication Number Qualifier**		**X**	**ID 2/2**
			EM	Email Address		
			FX	Facsimile		
			TE	Telephone		
				Code identifying the type of communication number/ address for the customer associated with this account.		
Optional	**PER06**	**364**	**Communication Number**		**X**	**AN 1/80**

			Complete communications number/address according to sender's records.		
Optional	**PER07**	**365**	**Communication Number Qualifier**	**X**	**ID 2/2**
			EM Email Address		
			FX Facsimile		
			TE Telephone		
			Code identifying the type of communication number/ address for the customer associated with this account.		
Optional	**PER08**	**364**	**Communication Number**	**X**	**AN 1/80**
			Complete communications number/address according to sender's records.		

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

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

Utility Request :   Conditional
ESCO Response: Conditional

ESCO Request :   Conditional
Utility Response: Conditional

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

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

N1~BT~Daimler-Benz C/O Siegfried Schwung
N1~BT~Robert J. McDonald DBA Tiny Tots
N1~BT~Ben Jones, Mgr. Store 16

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			BT Bill-to-Party		
			Name for Mailing Address		
Mand.	**N102**	**93**	**Name**	**M**	**AN 1/60**
			Name associated with the mailing address for billing. This N1 segment must be sent to report a change in the name associated with the mailing address for billing. This segment must also be sent when reporting a change in the address for billing (the N3/N4 segments) and/or a change in the customer's telephone number (the PER segment). When a change is being requested in either mailing address or telephone number, this element may contain the literal "NAME".		

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

Utility Request: Conditional
ESCO Responses: Conditional

ESCO Request :   Conditional
Utility Response: Conditional

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

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

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

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

Data Element Summary

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

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

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

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

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

Data Element Summary

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

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

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

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

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

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

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

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

Utility ~~request~~Request: Not Used
ESCO ~~response~~Response: Not Applicable

ESCO ~~request~~Request: Conditional
Utility ~~response~~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 N1BT code is transmitted in the REF*TD segment at position 030.

PER~IC~~TE~7166756271

Data Element Summary

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

Segment:	$\textbf{LIN}$ Item Identification
Position:	010
Loop:	LIN Optional (Must Use)
Level:	Detail
Usage:	Optional (Must Use)
Max Use:	1
Purpose:	To specify basic item identification data

Syntax Notes:	1	If either LIN04 or LIN05 is present, then the other is required.
	2	If either LIN06 or LIN07 is present, then the other is required.
	3	If either LIN08 or LIN09 is present, then the other is required.
	4	If either LIN10 or LIN11 is present, then the other is required.
	5	If either LIN12 or LIN13 is present, then the other is required.
	6	If either LIN14 or LIN15 is present, then the other is required.
	7	If either LIN16 or LIN17 is present, then the other is required.
	8	If either LIN18 or LIN19 is present, then the other is required.
	9	If either LIN20 or LIN21 is present, then the other is required.
	10	If either LIN22 or LIN23 is present, then the other is required.
	11	If either LIN24 or LIN25 is present, then the other is required.
	12	If either LIN26 or LIN27 is present, then the other is required.
	13	If either LIN28 or LIN29 is present, then the other is required.
	14	If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes: 1   LIN01 is the line item identification

Notes:

Utility Request :   Required
ESCO Response: Required

ESCO Request :   Required
Utility Response: Required

Each change at the Account Level must be sent in a separate LIN Loop.

The LIN03 specifies the product (electric or gas) and the LIN05 specifies the action event.

LIN~AACCDD0102004A~SH~EL~SH~CE   This change pertains to electric service

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	LIN01	350	**Assigned Identification**		O	**AN 1/20**
			The identifier supplied in this element either by itself or in conjunction with the BGN02 element from the BGN segment must uniquely identify each LIN request item over time.			
			The LIN01 identifier sent in a Request transaction must be returned in the transaction containing the response to that request (see examples).			
Mand.	LIN02	235	**Product/Service ID Qualifier**		M	**ID 2/2**
			SH	Service Requested		
				A numeric or alphanumeric code from a list of services available to the customer		
Mand.	LIN03	234	**Product/Service ID**		M	**AN 1/48**
			Commodity - there may be only one commodity (Electric or Gas) for each 814 transaction.			
			EL			
			GAS			
Mand.	LIN04	235	**Product/Service ID Qualifier**		M	**ID 2/2**
			SH	Service Requested		
				A numeric or alphanumeric code from a list of services available to the customer		
Mand.	LIN05	234	**Product/Service ID**		M	**AN 1/48**
			CE	Customer Enrollment		

Request for change in customer account information.

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

Notes:

Utility Request: Required
ESCO Response: Required

ESCO Request :   Required
Utility Response: Required

ASI~7~001   Request for change
ASI~WQ~001   Accept Response for request for change
ASI~U~001   Reject Response to a request for change

Data Element Summary

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

Segment:	**REF** Reference Identification (Reject Response Reasons)
Position:	030
Loop:	LIN Optional (Must Use)
Level:	Detail
Usage:	Optional (Dependent)
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Notes:	Utility Request : Not Used
	ESCO Response: Required
	ESCO Request: Not used
	Reject Utility Response: RequiredConditional
	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 AMT*7 (ESCO Pricing Adjustment Credit) or AMT*UJ (ESCO Generic Credit), the supplier is responsible for directly reimbursing the customer.
	REF~7G~C11

Data Element Summary

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

Segment:	**REF** Reference Identification (Reason for Change - Account Level)	
Position:	030	
Loop:	LIN	Optional (Must Use)
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	>1	
Purpose:	To specify identifying information	
Syntax Notes:	**1**	At least one of REF02 or REF03 is required.
	2	If either C04003 or C04004 is present, then the other is required.
	3	If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1**	REF04 contains data relating to the value cited in REF02.
Notes:	Utility Request : Conditional	
	ESCO Response: Optional	
	ESCO Request: Conditional	
	Utility Response: Optional	
	This segment is used to identify the data segment(s) sent at the account level that are being changed. See REF*TD Segment (Reason for Change – Meter Level) of this Implementation Guide for a description of the codes used to identify a change in the data segment(s) sent at the meter level.	
	REF~TD~N18R	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			TD Reason for Change		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			AMT7 Change ESCO Pricing Adjustment Credit		
			Used to report a credit to the customer's account when the ESCO has charged a customer that receives service subject to a price guarantee more than what the customer would have paid the utility and the ESCO is required to provide a credit to the customer, i.e. a Guaranteed Savings Program (GSP) Credit. The Utility will include this one-time credit on the customer's next bill.		
			AMT9M Change Customers' Tax Rate 1		
			Utility Rate Ready Consolidated Billing Only. Used to report a change in the customer's tax rate when the utility is calculating ESCO charges. The 9M code may also be used to report a change in the residential tax rate applicable to a portion of the service (i.e. a REF*RP was present in the Enrollment transaction) when URR billing is in effect. The AMT9N code may be used to report a change in the portion of the account taxed at a commercial rate.		
			AMT9N Change Customers' Tax Rate 2		
			Utility Rate Ready Consolidated Billing Only. This code may only be used to report a change in the customer's tax rate applicable to the portion of the service taxed at a commercial rate in instances when part of the service is taxed at a residential rate and the balance at a commercial rate (i.e. REF*RP was present in the Enrollment transaction). The AMT9M code may be used to report a change in the residential tax rate on that account.		
			AMTB1 Change Benefit Amount		

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

Segment:	**REF** Reference Identification (ESCO Customer Account Number)	
Position:	030	
Loop:	LIN Optional (Must Use)	
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To specify identifying information	
Syntax Notes:	**1** At least one of REF02 or REF03 is required.	
	2 If either C04003 or C04004 is present, then the other is required.	
	3 If either C04005 or C04006 is present, then the other is required.	
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.	
Notes:	Utility Request: Not Used	
	ESCO Response: Not Applicable	
	ESCO Request: Conditional	
	Utility Response: Conditional	
	This segment is sent by the ESCO when the Utility is the bill presenter and the ESCO account number for the customer is being changed. This segment may be returned in a response transaction at the discretion of the utility.	
	REF~11~A12345009Z	

Data Element Summary

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

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

Utility Request: Required
ESCO Response: Required

ESCO Request :   Required
Utility Response: Required

The Utility account number assigned to the customer is used for validation and must be present on all transactions.
The Utility is required to report any change in the customer's account number. The new/current account number is sent in the REF*12 segment and the prior account number must be sent in a REF*45 segment (see notes on line 49 of the 814C data dictionary). The Response transaction must contain the new account number in the REF*12 segment.

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

Data Element Summary

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

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

Notes:

Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Not Used
Utility Response: Not Applicable

Where a utility changes an existing customer's account number as a business process (and as noted in its Utility Maintained EDI Guide), this segment must be sent by the Utility when the utility assigned account number for the customer is changed.

REF~45~9194132485705971

Data Element Summary

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

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

Notes:
Utility Request~~s~~:   Conditional
ESCO Response~~s~~:   Conditional

ESCO Request: Not Used
Utility Response: Not Applicable

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		

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

Notes:

Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Not Used
Utility Response: Not Applicable

This segment is sent to report a change in the customer's meter read cycle.

REF~65~A12~MON
REF~65~18~BIM

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Meter Cycle Code		
			65 Total Order Cycle Number		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			An alphanumeric code indicating when meter reads are scheduled for this account. This code will be used to obtain the meter reading schedule information from a Utility's web site.		
Cond.	**REF03**	**352**	**Description**	**X**	**AN 1/80**
			REF03 should be sent if the code in REF02 is insufficient to communicate the usage period to be reported when regularly scheduled use information is sent in an 867 transaction.		
			BIM bi-monthly		
			MON monthly		
			QTR quarterly		

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

Notes:

Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Not Used
Utility Response: Not Applicable

This segment must be sent by the Utility when there has been a change in the customer's bill cycle date or bill frequency.

REF~BF~18~MON
REF~BF~05~QTR

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			BF Billing Center Identification		
			Billing cycle. Cycle number indicating when this customer is scheduled for billing.		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			An alphanumeric code indicating when a scheduled bill is prepared for the customer. Some companies may bill on a cycle other than the read cycle in which case this code would be used to retrieve the scheduled billing date from the utility's web site.		
Cond.	**REF03**	**352**	**Description**	**O**	**AN 1/80**
			If present, indicates the frequency with which the account is billed by the Utility. Billing frequency information may be implicit in the data provided by the Utility on its web site. If the data sent in REF02 is insufficient to determine bill frequency (by reference to the Utility's web site) and a change in bill cycle is being reported, then this element must be sent.		
			BIM bi-monthly		
			MON monthly		
			QTR quarterly		

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

Notes:

Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Conditional
Utility Response: Not Used

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

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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			BLT	Billing Type	
				Identifies whether the bill is a single bill consolidated by the Utility, a single bill consolidated by the ESCO, or separate bills presented by each party.	
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			DUAL	Each Party Presents a separate bill	
			ESP	ESCO is the consolidated Bill Presenter	
				Sent when the ESCO will be the bill presenter under ESCO Combined Billing.	
			LDC	Utility is the consolidated Bill Presenter	

Segment:	**REF** Reference Identification (Bill Calculator)	
Position:	030	
Loop:	LIN Optional (Must Use)	
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To specify identifying information	
Syntax Notes:	1 At least one of REF02 or REF03 is required.	
	2 If either C04003 or C04004 is present, then the other is required.	
	3 If either C04005 or C04006 is present, then the other is required.	
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.	
Notes:	Utility Request: Conditional	
	ESCO Response: Not Used	
	ESCO Request: Conditional	
	Utility Response: Not Used	
	This segment is sent to report a change in the Bill Calculator. It may be necessary to send additional dependent data segments when requesting a change in either bill presenter (REF*BLT) or bill calculator. See Front Matter notes (pages i - iv) for further instructions.	
	Not used in Single Retailer transactions that support ESCO Combined Billing.	
	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.	

NY 814 Change (Account Maintenance)

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

Notes:
Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Conditional
Utility Response: Not Used

This segment must be sent when the customer receives a consolidated bill AND the customer is being placed on a budget plan by the initiator of the transaction (either the Utility or ESCO) OR the customer's budget plan with the initiator of the transaction is being discontinued.
Budget billing changes can be requested only when consolidated billing is being used AND the billing party has agreed to calculate budget billing amounts for the non-billing party.

REF~NR~Y
REFF~NR~N

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			NR Progress Payment Number	
			Indicates a change to the customer's budget billing status for a customer on consolidated billing.	
Must Use	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			N This customer is no longer on budget billing for the sender's charges.	
			Y This customer is, or will be, on budget billing for the sender's charges.	

Segment:	**REF** Reference Identification (ESCO Late Fees)	
Position:	030	
Loop:	LIN	Optional (Must Use)
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To specify identifying information	

Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.

Notes:
ESCO Request: Conditional
Utility Response: Conditional

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

Where required by a utility this segment is used to report a change in the ESCOs late fee policy to the utility when the customer's bill option is Utility Rate Ready consolidated billing and the payment processing method is Pay-As-You-Get-Paid. This segment may be returned by the utility in the corresponding Response transaction.

The code REFLF should be sent in the REF*TD segment at the account to identify the change.
REF~LF~N2
REF~LF~Y2

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	REF01	128	**Reference Identification Qualifier**	M ID 2/3
			LF Assembly Line Feed Location	
			ESCO Late Fee Indicator	
			Late fees will/will not be assessed by the Billing Party on ESCO past due amounts for the account being enrolled.	
Optional	REF02	127	**Reference Identification**	X AN 1/30
			N2 No	
			Late fees should NOT be assessed by the Billing Party on ESCO past due amounts.	
			Y2 Yes	
			Late fees should be assessed by the Billing Party on ESCO past due amounts.	

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

Notes:

Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Conditional
Utility Response: Not Used

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

REF~PGC~B
REF~PGC~T

Data Element Summary

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

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

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

Notes:
Utility Request: Not Used
ESCO Response: Not used

ESCO Request: Conditional
Utility Response: Not Used

GAS ONLY. This segment is used when the ESCO moves a customer from one Gas Pool to another.

REF~VI~211234567

Data Element Summary

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

Segment:	**REF** Reference Identification (Gas Capacity Assignment/Obligation)
Position:	030
Loop:	LIN Optional (Must Use)
Level:	Detail
Usage:	Optional (Dependent)
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Notes:	Utility Request: Conditional
	ESCO Response: Not Used
	ESCO Request: Not Used
	Utility Response: Not Applicable
	GAS ONLY. This segment is provided to the ESCO by the Utility to convey a change in the intended or obligated pipeline capacity requirements necessary to meet the needs of the end use customer as described in its Utility Maintained EDI Guide.
	REF~GC~YES
	REF~GC~NO

Data Element Summary

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

Segment:	**REF** Reference Identification (ISO Location Based Marginal Pricing Zones)	
Position:	030	
Loop:	LIN Optional (Must Use)	
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To specify identifying information	
Syntax Notes:	**1** At least one of REF02 or REF03 is required.	
	2 If either C04003 or C04004 is present, then the other is required.	
	3 If either C04005 or C04006 is present, then the other is required.	
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.	
Notes:	Utility Request: Conditional	
	ESCO Response: Not Used	
	ESCO Request: Not Used	
	Utility Response: Not Applicable	
	ELECTRIC ONLY. This segment is sent to report a change in the LBMP zone for a customer.	
	REF~SPL~A	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	REF01	128	**Reference Identification Qualifier**	**M ID 2/3**
			SPL Standard Point Location Code (SPLC)	
			REF02 contains the ISO Assigned code for New York Location Based Pricing Zones when service type is EL. This is the pricing zone for the account being enrolled.	
Must Use	REF02	127	**Reference Identification**	**X AN 1/30**
			A code assigned by the ISO that represents a location based marginal pricing zone. Valid Values for REF02:	

A	WEST
B	GENESE
C	CENTRL
D	NORTH
E	MHK VL
F	CAPITL
G	HUD VL
H	MILL WD
I	DUNWOD
J	N.Y.C.
K	LONGIL
M	HQ
O	OH
P	PJM

Segment:	**REF** Reference Identification (Portion Taxed Residential)	
Position:	030	
Loop:	LIN	Optional (Must Use)
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To specify identifying information	
Syntax Notes:	1	At least one of REF02 or REF03 is required.
	2	If either C04003 or C04004 is present, then the other is required.
	3	If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.
Notes:	Utility Request: Conditional	
	ESCO Response: Not Used	
	ESCO Request: Conditional	
	Utility Response: Not Used	
	Where required by a utility in its Utility Maintained EDI Guide, this segment must be sent to the utility when there has been a change in the portion of a non-residential account that is taxed at a residential rate AND the customer's bill option is Utility Rate Ready consolidated billing.	
	REF~RP~20	
	REF~RP~25	

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	REF01	128	**Reference Identification Qualifier**		M ID 2/3
			RP	Repetitive Pattern Code	
				Portion Taxed Residential	
				Percent of a Non-Residential account that should be considered residential for tax purposes.	
Must Use	REF02	127	**Reference Identification**		X AN 1/30
			The following codes are to be used:		
			20	Split Rate 10% Residential use	
			21	Split Rate 20% Residential use	
			22	Split Rate 30% Residential use	
			23	Split Rate 40% Residential use	
			24	Split Rate 50% Residential use	
			25	Split Rate 60% Residential use	
			26	Split Rate 70% Residential use	
			27	Split Rate 75% or above Residential use	

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

Notes:

Utility ~~Change~~ Requests: Conditional~~, for Electric accounts only~~

~~Change Accept~~ESCO Responses: Not Used

ESCO Request: Not Used

Utility Response: Not Applicable

Set by Utility for Electric accounts only.

REF~TDT~C

Data Element Summary

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

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

Data Element Summary

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

Segment:	**REF** Reference Identification (Utility Discount Indicator)	
Position:	030	
Loop:	LIN	Optional (Must Use)
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To specify identifying information	
Syntax Notes:	**1**	At least one of REF02 or REF03 is required.
	2	If either C04003 or C04004 is present, then the other is required.
	3	If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1**	REF04 contains data relating to the value cited in REF02.
Notes:	Change Utility Requests: Conditional	
	ESCO Response: Not Used	
	ESCO Request: Not Used	
	Utility Response: Not Applicable	
	Sent by Utility for non-residential accounts where the customer receives a commodity discount from the utility or a delivery discount that is dependent upon purchase of commodity from the utility. Further, the indicator should be set to "N" in cases where all non –residential customers in a rate class or service receive the same discount or when the delivery discount is portable, i.e. it applies whether the customer purchases commodity from the ESCO or the utility.	
	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 | |

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

ESCO Request: Not Used
Utility Response: Not Applicable

Sent if available in the utility's system.

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

Data Element Summary

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

Segment:	# REF Reference Identification (Utility Tax Exempt Status)	
Position:	030	
Loop:	LIN	Optional (Must Use)
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To specify identifying information	
Syntax Notes:	**1** At least one of REF02 or REF03 is required.	
	2 If either C04003 or C04004 is present, then the other is required.	
	3 If either C04005 or C04006 is present, then the other is required.	
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.	
Notes:	~~Change~~ Utility Request~~s~~: Conditional	
	~~Change Accept~~ESCO Response~~s~~: Not Used	
	ESCO Request: Not Used	
	Utility Response: Not Applicable	
	Signifies the existence of exemptions and/or certifications, if any, held by the utility that are used to bill the customer for utility services. The indicator is informational only; the utility's exemption is not transferable to the ESCO to bill the customer for ESCO services. The ESCO should not rely upon the utility's information for billing purposes and should contact the customer to obtain necessary information consistent with the requirements of the New York State Department of Taxation & Finance and any applicable laws.	
	REF~TX~Y	

Data Element Summary

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

Segment:	**REF** Reference Identification (Interval Usage Option)	
Position:	030	
Loop:	LIN	Optional (Must Use)
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To specify identifying information	
Syntax Notes:	**1** At least one of REF02 or REF03 is required.	
	2 If either C04003 or C04004 is present, then the other is required.	
	3 If either C04005 or C04006 is present, then the other is required.	
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.	
Notes:	Utility Request: Not Used	
	ESCO Response: Not Used	
	ESCO Request: Optional	
	Utility Response: Conditional	
	Used by ESCO to specify the preference to receive the 867IU for a customer with an interval metered account. This segment may be returned in a Change Accept Response from the Utility when sent in the request by the ESCO.	
	A requested change will be effective mid-cycle, provided that it is received at least four calendar days prior to the next read date.	
	REF*IU*SUMMARY	
	REF*IU* DETAIL	
	REF*IU*METERDETAIL	

Data Element Summary

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

Segment:	**REF** Reference Identification (APP Status)
Position:	030
Loop:	LIN Optional (Must Use)
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Notes:	Utility Request: ~~Optional~~If supported by a utility as specified in its Utility Maintained EDI Guide, used to notify the ESCO that the customer is no longer eligible for APP benefits.
	ESCO Response: Not Used
	ESCO Request: Not Used
	Utility Response: Not Used
	If supported by a utility as specified in its Utility Maintained EDI Guide, used to notify the ESCO that the customer's APP benefit status has changed.
	REF~5E~N

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	REF01	128	Reference Identification Qualifier	M	ID 2/3
			5E Consumer Identifier		
			APP Status		
Must Use	REF02	127	Reference Identification	X	AN 1/30
			The following codes are to be used:		
			N No, the customer is not currently eligible for APP benefits.		
			Y Yes, the customer is currently eligible for APP benefits.		

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

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

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

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

DTM~007~20060917

Data Element Summary

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

Segment:	**DTM** Date/Time Reference (Assigned Service Start Date)
Position:	040
Loop:	LIN Optional (Must Use)
Level:	Detail
Usage:	Optional (Dependent)
Max Use:	1
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.
	2 If DTM04 is present, then DTM03 is required.
	3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:	
Notes:	Utility Request: Conditional
	ESCO Response: Not Used
	ESCO Request: Not Used
	Utility Responses: Not UsedApplicable
	May be sent by the Utility only when an enrollment request for the customer is pending.
	DTM~150~20060313

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			150 Service Period Start		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			The date, in the form CCYYMMDD, when the ESCO will begin serving the enrolling customer. The Utility determines the effective start date for an enrollment. This segment will be sent by the Utility when there is a change in the assigned service start date returned on an Enrollment Accept Response.		

Segment:	**DTM** Date/Time Reference (Assigned Service End Date)	
Position:	040	
Loop:	LIN	Optional (Must Use)
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To specify pertinent dates and times	
Syntax Notes:	1	At least one of DTM02 DTM03 or DTM05 is required.
	2	If DTM04 is present, then DTM03 is required.
	3	If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:		
Notes:	Utility Request: Conditional	
	ESCO Request: Not Used	
	ESCO Responses: Not Used	
	Utility Response: Not Applicable	

This segment is sent by the Utility when a Drop is pending for the customer and the assigned service end date will vary by more than three days from the date indicated in the preceding Drop transaction.

DTM~151~20060313

Data Element Summary

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

Segment:	**DTM** Date/Time Reference (ICAP Effective Dates)	
Position:	040	
Loop:	LIN Optional	
Level:	Detail	
Usage:	Optional	
Max Use:	>1	
Purpose:	To specify pertinent dates and times	
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.	
	2 If DTM04 is present, then DTM03 is required.	
	3 If either DTM05 or DTM06 is present, then the other is required.	
Semantic Notes:		
Comments:		
Notes:	Utility Request: Conditional	
	~~Utility~~ ESCO Response: Not Used	
	ESCO Request: Not Used	
	~~ESCO~~ Utility Response: Not ~~Used~~Applicable	
	For electric customers, ~~The~~ the ICAP tag effective dates should be sent with ICAP Tag changes.	
	DTM~AB2~~~~RD8~20150501-20160430	

Data Element Summary

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

Segment:	**AMT** Monetary Amount (ESCO Budget Plan Installment Amount)
Position:	060
Loop:	LIN Optional (Must Use)
Level:	Detail
Usage:	Optional (Dependent)
Max Use:	1
Purpose:	To indicate the total monetary amount
Syntax Notes:	
Semantic Notes:	
Notes:	Utility Request: Not Used
	ESCO Response: Not Applicable
	ESCO Request: Conditional
	Utility Response: Not Used
	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.

Segment:	## AMT Monetary Amount (Tax Exemption Percent)	
Position:	060	
Loop:	LIN	Optional (Must Use)
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To indicate the total monetary amount	
Syntax Notes:		
Semantic Notes:		
Notes:	Utility Request: Not Used	

ESCO Response: Not Applicable

ESCO Request: Conditional
Utility RequestResponse: 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 ESCO Combined Billing.

AMT~DP~1
AMT~DP~.75

Data Element Summary

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

Segment:	<big>AMT</big> **Monetary Amount (ESCO Commodity Price)**	
Position:	060	
Loop:	LIN	Optional (Must Use)
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To indicate the total monetary amount	
Syntax Notes:		
Semantic Notes:		
Notes:	Utility Request: Not Used ESCO Request: Conditional	

ESCO Response: Not Applicable

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

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

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

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

Data Element Summary

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

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

Segment:	AMT **Monetary Amount (ESCO Fixed Charge)**	
Position:	060	
Loop:	LIN	Optional (Must Use)
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To indicate the total monetary amount	
Syntax Notes:		
Semantic Notes:		
Notes:	Utility Request: Not Used	

ESCO Response: Not Applicable

ESCO Request: Conditional
Utility Response: Not Used

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

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

AMT~FW~2.00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	AMT01	522	**Amount Qualifier Code**	M ID 1/3
			FW Flat Fee Paid Current Month	
			ESCO fixed charge expressed as a monetary amount.	
Mand.	AMT02	782	**Monetary Amount**	M R 1/18
			The fixed charge for this customer. Values must reflect two decimal places.	

Segment:	**AMT** Monetary Amount(Customer's Tax Rate for ESCO Charges -1)
Position:	060
Loop:	LIN Optional (Must Use)
Level:	Detail
Usage:	Optional (Dependent)
Max Use:	1
Purpose:	To indicate the total monetary amount
Syntax Notes:	
Semantic Notes:	
Notes:	~~ESCO Request: Conditional~~Utility Request: Not Used

ESCO Response: Not Applicable

~~Utility Request: Not Used~~
~~ESCO Request: Conditional~~
Utility Response: Optional

Utility Rate Ready Consolidated Billing Only.

In its Utility Maintained EDI Guide, the utility will indicate if it supports the AMT*9M segment and if so, whether and how it is supported in conjunction with the AMT*9N and REF*RP segments.
Where supported:
- This segment is sent by an ESCO to report a change in the customer's tax rate for all service on the account or for the portion of the service taxed at a residential rate when a REF*RP segment was present in the Enrollment Request transaction.
- This segment is sent by an ESCO to report a change in the composite tax rate to compute the applicable tax amount associated with the ESCO charges.

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

AMT~9M~.045

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**AMT01**	**522**	**Amount Qualifier Code**	**M ID 1/3**
			9M Tax Adjustments	
			The rate in AMT02 is the tax rate that should be used by the utility to calculate tax amounts associated with the ESCOs charges when the customer's bill option is Utility Rate Ready consolidated billing.	
Mand.	**AMT02**	**782**	**Monetary Amount**	**M R 1/18**
			For percentage values, the whole number "1" will represent 100 percent; decimal numbers less than "1" represent percentages.	

Segment:	**AMT** **Monetary Amount(Customer's Tax Rate for ESCO Charges -2)**	
Position:	060	
Loop:	LIN	Optional (Must Use)
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To indicate the total monetary amount	
Syntax Notes:		
Semantic Notes:		
Notes:	Utility Request: ~~Not Used~~~~ESCO Request:~~ ~~Conditional~~	
	ESCO Response: Not Applicable	
	~~Utility Request:~~ ~~Not Used~~	
	ESCO Request: Conditional	
	Utility Response: Optional	

Utility Rate Ready Consolidated Billing Only.
In its Utility Maintained EDI Guide, the utility will indicate if it supports the AMT*9N segment and if so, whether and how it is supported in conjunction with the AMT*9M and REF*RP segments.
Where supported:
- This segment is sent by an ESCO to report a change in the customer's tax rate for that portion of the customer's service that is being taxed at a commercial rate when a REF*RP segment was present in the Enrollment Request transaction.
- This segment is sent by an ESCO to report a change in the composite tax rate to compute the applicable tax amount associated with the ESCO charges.

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

AMT~9N~.075

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**AMT01**	**522**	**Amount Qualifier Code**	**M ID 1/3**
			9N Tax Balance	
			The rate in AMT02 is the tax rate that should be used by the utility to calculate tax amounts associated with the ESCOs charges applicable to the portion of the customer's service taxed at a commercial rate.	
Mand.	**AMT02**	**782**	**Monetary Amount**	**M R 1/18**
			For percentage values, the whole number "1" will represent 100 percent; decimal numbers less than "1" represent percentages.	

Segment:	# AMT **Monetary Amount (ICAP)**
Position:	060
Loop:	LIN Optional (Must Use)
Level:	Detail
Usage:	Optional (Dependent)
Max Use:	>1
Purpose:	To indicate the total monetary amount
Syntax Notes:	
Semantic Notes:	
Comments:	
Notes:	Utility Request: Conditional ESCO Response: Not Used ESCO Request: Not Used Utility Response: Not Applicable Sent for Electric accounts, if available, to report a change in the customer's peak load contribution for Electric Service. The ICAP tag effective dates should be provided with this segment. AMT03 is a general indicator; i.e. it is not tied to any specific program AMT~KZ~.015 DTM~AB2~~~~RD8~20140501-20150430 AMT~KZ~0.15~C DTM~AB2~~~~RD8~20140501-20150430

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**AMT01**	**522**	**Amount Qualifier Code**	**M**	**ID 1/3**
			KZ	Corrective Action Requests - Written	
				ICAP Tag	
Mand.	**AMT02**	**782**	**Monetary Amount**	**M**	**R 1/18**
			For percentage values, the whole number "1" represents 100 percent; decimal numbers less than "1" represent percentages from 1 percent to 99.99 percent.		
	AMT03	**478**	**Credit/Debit Flag Code**		**ID 1/1**
			C	Credit	
				Yes, there is a Special Program Adjustment Indicator related to the ICAP Tag. For example, a NYPA adjustment has been applied.	
			D	Debit	
				No, there is no Special Program Adjustment Indicator related to the ICAP Tag.	

Segment:	# AMT Monetary Amount (ESCO Pricing Adjustment Credit)
Position:	060
Loop:	LIN Optional (Must Use)
Level:	Detail
Usage:	Optional (Dependent)
Max Use:	1
Purpose:	To indicate the total monetary amount
Syntax Notes:	
Semantic Notes:	
Notes:	Utility Request: Not Used
	ESCO Response: Not Applicable
	ESCO Request: Conditional
	Utility Response: Optional
	Utility Request: Not Used
	ESCO Response: Not Used

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

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

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

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

AMT~7~-2.15

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	AMT01	522	**Amount Qualifier Code**	M ID 1/3
			7 Discount Amount Due	
			ESCO GSP Credit	
Mand.	AMT02	782	**Monetary Amount**	M R 1/18

This element is a real number. Real numbers are assumed to be positive unless preceded by a minus sign. See Front Matter notes regarding syntax for real number elements. A GSP Credit shown as a negative amount. Adjustments to reduce prior GSP Credits are shown as positive amounts. For example, if the customer is owed a credit of $2.15, the ESCO would send AMT~7~-2.15. If an ESCO intends to adjust a previously issued GSP Credit to reflect a smaller net credit, it would send AMT~7~1.08, for example.

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

Utility Request: Not Used
ESCO Response: Not Applicable

ESCO Request: Conditional
Utility Response: Optional

Utility Request: Not Used
ESCO Response: Not Used

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

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

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

AMT~UJ~-2.15

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	AMT01	522	**Amount Qualifier Code**		**M ID 1/3**
			UJ	Other Credits	
				ESCO Generic Credit	
Mand.	AMT02	782	**Monetary Amount**		**M R 1/18**

This element is a real number. Real numbers are assumed to be positive unless preceded by a minus sign. See Front Matter notes regarding syntax for real number elements. A generic credit is shown as a negative amount. Adjustments to reduce prior generic credits are shown as positive amounts. For example, if the customer is owed a credit of $2.15, the ESCO would send AMT~UJ~-2.15. If an ESCO intends to adjust a previously issued generic credit to reflect a smaller net credit, it would send AMT~UJ~1.08, for example.

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

Utility Request: Not Used
ESCO Responses: Not UsedApplicable

ESCO Request: Conditional
Utility Response: Not Used

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

AMT~B1~121.5

Data Element Summary

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

Segment:	AMT Monetary Amount (Emergency HEAP Payment Amount Received)	
Position:	060	
Loop:	LIN	Optional (Must Use)
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To indicate the total monetary amount	
Syntax Notes:		
Semantic Notes:		
Notes:	ESCO Request: Conditional	
	Utility Request: Not Used	
	ESCO Responses: Not UsedApplicable	
	ESCO Request: Conditional	
	Utility Response: Not Used	
	This segment must be sent by the ESCO billing customers under ESCO Combined Billing when the ESCO receives an Emergency (Supplemental) HEAP Payment.	
	AMT~BK~121.5	

Data Element Summary

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

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

Notes:
Utility Request: Conditional
ESCO Response: Optional

ESCO Request: Conditional
Utility Response: Optional

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

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

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

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

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

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

Data Element Summary

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

			Indicates a Meter Removal. This code is used when: one or more meters are removed from a multi-metered account; an account with a single meter is changed to UNMETERED or; a meter has been removed temporarily but the account remains active and another meter is added.		
		MX	Juvenile Witness		
			Indicates a Meter Exchange. This code value in this segment will be used in conjunction with a REF*46 segment, which will contain the old meter number, when there has been a meter exchange. This would include instances in which a meter is added to a previously un-metered account.		
Mand.	**NM102**	**1065**	**Entity Type Qualifier**	**M**	**ID 1/1**
		3	Unknown		
			NM102 is an X12 required element.		
Must Use	**NM108**	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
		32	Assigned by Property Operator		
			Use when NM109 contains a meter number.		
		93	Code assigned by the organization originating the transaction set		
			Use when NM109 is not a meter number.		
Must Use	**NM109**	**67**	**Identification Code**	**X**	**AN 2/80**
			If NM108 = 32: NM109 will contain the Utility meter number (in conformance with the conditions described above). If NM108 = 93: NM109 will contain the literal "UNMETERED" (for unmetered accounts) OR the literal "ALL" (used when changes apply to all meters in a multi-metered account).		

Segment:	**REF** Reference Identification (Reason for Change - Meter Level)	
Position:	130	
Loop:	NM1	Optional (Dependent)
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	>1	
Purpose:	To specify identifying information	
Syntax Notes:	**1** At least one of REF02 or REF03 is required.	
	2 If either C04003 or C04004 is present, then the other is required.	
	3 If either C04005 or C04006 is present, then the other is required.	
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.	
Notes:	Utility Request: Conditional	
	ESCO Response: Optional	
	ESCO Request: Conditional	
	Utility Response: Optional	
	This REF segment is required to identify the data segment that is being changed when changes in data segment(s) sent at the meter level are bring reported.	
	REF~TD~REFNH	

Data Element Summary

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

Segment:	**REF** Reference Identification (Old Meter Number)	
Position:	130	
Loop:	NM1	Optional (Dependent)
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To specify identifying information	

Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.

Notes:

Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Not Used
Utility Response: Not Applicable

This segment is used when a meter exchange (MX) is being reported. In this situation, the new meter number is sent in the NM1 segment and the old meter number is sent in this REF segment. This segment is also used when a corrected meter number is being communicated.

REF~46~123456789
REF~46~UNMETERED

Data Element Summary

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

Segment:	**REF** Reference Identification (Utility Rate Service Class)	
Position:	130	
Loop:	NM1	Optional (Dependent)
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To specify identifying information	
Syntax Notes:	1	At least one of REF02 or REF03 is required.
	2	If either C04003 or C04004 is present, then the other is required.
	3	If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.

Notes:
Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Not Used
Utility Response: Not Applicable

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

REF~NH~1B
REF~NH~931

Data Element Summary

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

Segment:	**REF** Reference Identification (Utility Rate Sub Class)		
Position:	130		
Loop:	NM1	Optional (Dependent)	
Level:	Detail		
Usage:	Optional (Dependent)		
Max Use:	1		
Purpose:	To specify identifying information		
Syntax Notes:	1	At least one of REF02 or REF03 is required.	
	2	If either C04003 or C04004 is present, then the other is required.	
	3	If either C04005 or C04006 is present, then the other is required.	
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.	

Notes:

Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Not Used
Utility Response: Not Applicable

REF~PR~0151
REF~PR~NRSVD

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	REF01	128	**Reference Identification Qualifier**	M ID 2/3
			PR — Price Quote Number	
			Utility Rate Subclass - Used to provide further classification of a rate.	
Must Use	REF02	127	**Reference Identification**	X AN 1/30
			Provides further clarification of a tariff specified in the REF where REF01=NH.	

Segment:	**REF** Reference Identification (Utility Load Profile Group Code)		
Position:	130		
Loop:	NM1	Optional (Dependent)	
Level:	Detail		
Usage:	Optional (Dependent)		
Max Use:	1		
Purpose:	To specify identifying information		
Syntax Notes:	1	At least one of REF02 or REF03 is required.	
	2	If either C04003 or C04004 is present, then the other is required.	
	3	If either C04005 or C04006 is present, then the other is required.	
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.	

Notes: Utility Request: Conditional
ESCO Response: Not Used

ESCO Request: Not Used
Utility Response: Not Applicable

REF~LO~L01

Data Element Summary

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

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

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

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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			MT Meter Ticket Number	
			Meter type. Used to identify the type of consumption measured by a meter and the interval between measurements or the type of consumption and reporting interval applicable to the un-metered service delivery points on the account.	
Cond.	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			The type and reporting interval for consumption measurements are described in a five-character field. The first two characters are used to describe the type of consumption. The last three characters describe the reporting interval.

The literal "COMBO" is sent in the REF02 when the service delivery point(s) identified in the NM109 is capable of providing different measurement types and/or providing measurements for more than one time period in a day. When the REF*MT segment contains "COMBO" OR usage is being measured in timed intervals (e.g. on peak), multiple REF*TU segments are used to provide the measurement types and the daily time period(s) for each measurement the meter will provide, as well as the reporting intervals used for billing. | |

When only one measurement type is applicable to the metered or un-metered service points identified in the NM109 element, the REF02 in this segment should contain one of the following codes as the first two characters to describe the type of consumption:

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

The following codes are used in the last three characters of the REF02 to document the interval capabilities for the metered or un-metered service delivery point(s) identified in the NM109. If that capability is not known then the interval that should be reported is the scheduled meter reading interval.

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

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

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

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

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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			TU Trial Location Code		
			REF02 will contain a code that indicates the time of day for which measurements are obtained.		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			41 Off Peak		
			42 On Peak		
			43 Intermediate Peak		
			51 Total/Totalizer		

Use "51" when:

The total of all consumption of the indicated type for all periods recorded by the meter indicated in the NM1 segment will be reported in the 867 transaction. For example, if only the total usage for a metered service point will be sent in the 867, the REF*TU segment should contain "51". When consumption will be reported by intervals on the 867 transaction, for example, off peak, on peak, and total then multiple REF*TU segments must be present with codes of "41","42" and "51" for the applicable metered service point.

Must Use   REF03   352   Description   X   AN 1/80

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

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

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

Valid values for REF03 for consumption types:

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

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

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

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

Segment:	**REF** Reference Identification (ESCO Rate Code)	
Position:	130	
Loop:	NM1	Optional (Dependent)
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To specify identifying information	
Syntax Notes:	**1**	At least one of REF02 or REF03 is required.
	2	If either C04003 or C04004 is present, then the other is required.
	3	If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1**	REF04 contains data relating to the value cited in REF02.

Notes:

Utility Request: Not Used
ESCO Response: Not Applicable

ESCO Request: Conditional
Utility Response: Conditional

This segment must be sent by the ESCO to report a change in the ESCO Rate Code when the bill option is Utility Rate Ready consolidated billing and the ESCO charges are being calculated based on a rate code table. This segment may be echoed back in Utility Accept Responses at the discretion of the utility.
This segment may be accompanied by a DTM*007 segment to communicate the effective date of the change in Rate Code when the applicable Utility has agreed to process such changes on a date other than the regularly scheduled bill cycle date.

REF~RB~R23X40
REF~RB~1150100

Data Element Summary

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

Segment:	**SE** Transaction Set Trailer	
Position:	150	
Loop:		
Level:	Detail	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)	
Syntax Notes:		
Semantic Notes:		
Notes:	Utility Request: Required	
	ESCO Response: Required	
	ESCO Request: Required	
	Utility Response: Required	
	SE~27~0001	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	SE01	96	**Number of Included Segments**	M	**N0 1/10**
Mand.	SE02	329	**Transaction Set Control Number**	M	**AN 4/9**