New York Implementation Standard

For

Standard Electronic Transactions

FILED

TRANSACTION SET

867

Monthly Usage

Ver/Rel 004010

		Summary of Changes
July 20, 2001		**Version 1.0** Initial Release
August 23, 2001		Errata Notice Issued MEA07 element was deleted from PTD Loop where PTD01=BC (Un-metered Usage) in the corresponding 867MU data dictionary.
October 2, 2001		Technical corrections posted in response to requests for clarification • Added gray box note for MEA07 in PTD Loop where PTD01=BO (Metered Summary) to clarify that MEA07 is not required when PTD05=Gas • Deleted MEA07 from the segment example displaying "600~HH". • Corrected the examples for AMT*ZT (Back Out Credit) in all three PTD loops.
June 21, 2002		**Version 1.1 Issued**
		• Deleted inappropriate transaction set note referring to LIN segment.
		• Updated Front Matter notes to include a description of the PTD Loop where PTD01=BK.
		• Inserted updated Field Descriptions page.
		• Deleted the word "Currently" from the title displayed on the Table of Contents page.
		• Changed the position of the REF*PR segment (Rate Sub Class) in each PTD Loop from 130 to 030.
		• Changed the X12 description of the usage attribute for the N1*SJ (ESCO) and N1*8S (Utility) from M to O.
		• Changed the loop repeat for PTD Loop where PTD01=B0 (Metered Summary) and where PTD01=BC (Un-metered Usage) to >1.
		• The usage attribute for the BPT04 element was changed from Must Use to Conditional to recognize that this element would not be sent in an 867MU transaction communicating an Interim Bill Notice.
		• Clarified the usage attribute for the N1 segment where N101=8R (Customer) in the segment and element notes and changed the example in the segment notes.
		• Changed the usage attribute for segment N4 (Service Address) in the N1=8R loop from Optional to Conditional. When service address information is being sent, an N4 segment must be sent.
		• Modified the usage attributes for the N402 and N403 elements in the N4 segment to be consistent with the usage attributes displayed in the TS814 Change Implementation Guide.
		• Clarified the segment usage attribute for REF*45 (Previous Utility Account Number)
		• Modified the segment note for the PTD Loop where PTD01=BO (Metered Summary) to make this note consistent with a similar note in the 867HU transaction.

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		Summary of Changes - Continued
		• Corrected the example in the segment notes for the PTD Loop where PTD01=BO (Metered Summary). • Corrected the example provided in the segment notes for the AMT*ZT segments.
		• Modified the segment notes for the PTD Loop where PTD01=BC (Un-metered Usage) to clarify when multiple PTD Loops for un-metered usage must be sent.
		• Corrected the segment notes for the PTD Loop where PTD01=BQ to list all of the segments required to be sent in this loop.
		• Corrected the example in the segment notes for the PTD Loop where PTD01=BQ (Metered Usage Detail).
		• Expanded the segment notes for the QTY segment in the PTD Loop for Metered Usage Detail to clarify that "1" is the only valid value for QTY02 in this loop.
		• Changed the use attribute for the QTY02 element in the PTD Loop where PTD01=BQ from Optional to Must Use.
		• Added new PTD Loop (PTD01=BK) to communicate an Interim Bill Notice when the bill option is Utility Bill Ready.
		• Corrected the example in the segment notes for the SE segment to be consistent with the example provided in the segment notes for the ST segment.
		• Modified the transaction creation dates provided in the examples such that the creation date is always later than the reported period end date indicated in the example transaction.
		• Corrected various example transactions such that the consumption displayed in the EDI example (left column of the table) is consistent with the description of the consumption provided in the right column of the table.
		• Corrected the EDI text for the example displaying rejection of an 867MU transaction.
		• Added new example to display use of an Interim Bill Notice in an 867MU transaction.
November 26, 2002		**Version 2.0 Issued**
		• Revised the titles of the following PTD segments: Metered Consumption Summary (PTD*BO), Un-metered Consumption (PTD*BC) and Metered Consumption Detail (PTD*BQ) and revised the segment notes for these segments to distinguish between billed consumption data and recorded usage data.
		• Added new PTD loop (PTD*PM) to transmit metered usage data for the Single Retailer model (required) or other models (optional).

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		Summary of Changes - Continued
		• Revised Front Matter Notes on "Type of Data" to include use of this transaction to communicate an Interim Bill Notice and metered usage data as well as billed consumption data.
		• Revised the BPT segment to include the BPT09 element. This element is sent in a 'Cancel' transaction to communicate the transaction reference number from the original 867 transaction that is being canceled.
		• Clarified the use of AMT*ZT (Back Out Credit) segment and corrected examples.
March 17, 2004		**Version 2.1 Issued**
		• The usage attribute for the MEA*CF segment (Therm Factor) in the PTD*PM loop is revised from "Conditional" to "Optional" so that a utility or Meter Data Service Provider has the option of making this data accessible on a web site instead of transmitting therm factor data in individual customer specific EDI transactions.
		• The following codes were added to element MEA07 in the MEA segments present in the QTY loops for the PTD*BO and PTD*BQ loops to provide for more detailed descriptions of electric consumption/usage data: 45 (Summer On Peak), 49 (Winter On Peak), 50 (Winter Mid Peak), 57 (Summer Total), 58 (Winter Total), 73 (Summer Off Peak), 74 (Summer Intermediate Peak), 75 (Winter Off Peak), 84 (High Tension On Peak Energy), 85 (High Tension Off Peak Energy), 86 (Low Tension On Peak Energy), 87 (Low Tension Off Peak Energy), 88 (Low Tension Total Energy), 89 (Low Tension Primary Demand), 90 (Low Tension Transmission Demand), 92 (High Tension Total Energy), 93 (High Tension Primary Demand) and 94 (High Transmission Demand).
		• Notes were added to clarify the use of codes 41 (Off Peak), 42 (On Peak) and 51 (Total) by Consolidated Edison of New York.
		• Notes regarding the attributes of "R" elements were added to the Front Matter notes.
July 19, 2006		**Version 2.2 Issued**
		• The 'Purpose' section of the Front Matter Notes is revised to indicate that NFG will send either an 867MU transaction containing usage (Single Retailer) or consumption (Utility Rate Ready consolidated or dual billing) for a cycle period and estimated consumption for a calendar month period.
		• The 'Type of Data' section of the Front Matter Notes is revised to indicate that estimated consumption will be provided by NFG in an 867 MU transaction for all active accounts.
		• The 'Companion Documents' section of the Front Matter Notes is revised to delete references to the 810 Invoice for ESCO consolidated billing.
		• The Transaction Set Notes are revised to list 'calendar month estimated consumption' in the data to be communicated in an 867MU transaction

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		Summary of Changes - Continued
		• Revised the segment note for the MEA*B1 segment (Metered Base Load) in the PTD*PM loop to indicate that base load data is associated with a meter rather than an account.
		• Added a REF03 element to the REF*12 segment (Utility Account Number) to distinguish between metered and un-metered consumption on the same electric account. This element will only be used in Monthly Usage transactions initiated by Orange & Rockland Utilities.
		• A new code ('IN') is added to the BPT07 element in the BPT segment for use by NFG in identifying an 867MU transaction containing estimated consumption for a calendar month period.
		• Notes for some segments and elements in the PTD*PM Loop are revised to reflect the fact that Rochester Gas & Electric no longer supports the Single Retailer Model and to clarify use of various segments/elements in this loop by National Fuel Gas.
		• Examples are revised or added to display the use of new or modified segments. The generic labels 'ESCO NAME', 'UTILITY NAME' and 'CUSTOMER NAME' have replaced actual names in some examples.
April 7, 2015		**Version 2.3 Issued**
		• Utility specific notes are generalized, as appropriate, and designated for relocation to/reference within Utility Maintained EDI Guides, as necessary.
		• Replaced references to Marketer and E/M with ESCO
January 29, 2016		**Version 2.4 Issued**
		• Added optional REF Reference Identification (Bill Option) segment.
June 30, 2016		**Version 2.5 Issued**
		• Update to conditionality of REF Reference Identification (Previous Utility Customer Account Number) segment.

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		Notes pertaining to the use of this document
Purpose		• This implementation guide describes the format and content for an 867 transaction containing either current consumption or usage data by account. This transaction will be sent to the ESCO of record, subsequent to enrollment, after the data has been validated for billing. • NFG will use the format and content of the 867MU transaction to provide estimated consumption for each calendar month period for each account enrolled with a Gas Marketer regardless of the customer's bill option. The 867MU Calendar Month Estimate transaction will be the basis for charges communicated in an 810 Calendar Month Estimate Invoice transaction. An 'ET' code will be used in the BPT07 element in the BPT segment to distinguish between transactions containing cycle usage versus transactions containing estimated consumption for a calendar month.
One account/one commodity per 867		• Each 867 Monthly Usage transaction is limited to one account for one commodity.
Type of Data		• When consumption data is being sent, an 867 MU transaction will contain the customer's consumption as calculated for Utility billing purposes. That data will be sent at the time the Utility is rendering a bill which may, or may not, coincide with meter reading cycles. Consumption data will not necessarily be sent at the time the meter(s) on an account are read and therefore an 867MU transaction may not be generated each time a meter is read (e.g. check reads, inspections, etc.) • When the 867MU transaction is being used to communicate an Interim Bill Notice (PTD*BK loop), the transaction will not contain either billed consumption or metered usage data. • For the Single Retailer model, an 867 MU transaction will contain a PTD*PM loop to transmit usage information as recorded on the meter and any factors, for example number of dials, meter constant, etc., that the recipient may need in order to calculate a customer's consumption. The PTD*PM loop may also be sent in other billing models at the discretion of the Utility or designated Meter Data Service Provider. • NFG will transmit an 867 MU transaction containing estimated consumption in a PTD*PM loop for a calendar month period for each account active with a Marketer for any portion of the calendar month period.
Correlation of data to 814 Response		• The data sent in this transaction should reflect the description of usage data returned on the 814 response to a request for history data. For example, if 10 electric meters were described on an 814 response, an 867 MU transaction should contain data for 10 electric service endpoints, either summarized or by individual service endpoint.
Interval Data		• Interval data will be sent in this transaction in summary form. Arrangements for access to detailed interval data must be made directly with the applicable utility.

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Valid Values	• Usage sent may have a valid value of zero. The term "monthly usage" should not be taken literally to mean that data will be sent each month for all enrolled customers. Usage data may cover periods greater than a month (when meters are read bi-monthly or quarterly) but all usage sent in this transaction is considered to be current usage.
Data Element Attributes	• Data elements whose X12 attribute type is 'R' (for example the QTY02 or AMT02 elements) are treated as real numbers. Real numbers are assumed to be positive numbers and a minus (-) sign must precede the amount when a negative number is being sent. Real numbers do NOT provide for an implied decimal position; therefore a decimal point must be sent when decimal precision is required. Note that in transmitting real numbers it is acceptable, but not necessary, to transmit digits that have no significance i.e. leading or trailing zeros.
Description of PTD Loops	• Metered consumption data is sent in the PTD*BO loop (Metered Consumption Summary) if the data from all meters on an account is being summarized or in the PTD*BQ loop (Metered Consumption Detail) when the data is being sent by individual meter. Meter reading data by meter is sent in the PTD*PM loop. Un-metered consumption is sent in the PTD*BC. There are various configurations of metered and un-metered service that may result in more than one PTD loop per transaction. • When the bill option is Utility Bill Ready, the Utility may send an 867MU transaction containing an Interim Bill Notice in a PTD*BK loop. This transaction is sent to notify the ESCO that the Utility intends to bill a customer but no usage data is available to be reported. When an Interim Bill Notice is being sent, the 867MU transaction must not contain any other PTD loops (see example). • When the customer is enrolled with an ESCO under the Single Retailer model, recorded or estimated meter reading data will be provided in a PTD*PM loop. When meter reading data is unavailable in the Single Retailer model, consumption information may be provided in the applicable PTD loop (either PTD*BO, PTD*BC or PTD*BQ). The PM loop may also be used in the Multiple Retailer model for various billing options based upon mutual agreement of the trading partners.
Data on Partial Requirements Customers	• The Utility will send pro-rated usage data for those accounts for whom the ESCO is providing only a portion of the load.
Cancellations/ Adjustments	• It may be necessary to cancel usage data previously reported to the ESCO for one or more periods. In this instance, the Utility may cancel consumption for multiple periods. The previously reported usage must first be cancelled (BPT01=01) before the recalculated consumption is sent to the Marketer. The cancellation must be reported in individual billing periods. The restated consumption will be sent as original consumption (BPT01=00). The supplier of record during the adjustment period(s) will receive an 867 Monthly Usage for a prior period, even though the account may no longer be active with that ESCO.

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Definitions		• The term Utility or LDC (Local Distribution Company) is used in this document to refer to the local gas or electric distribution company, i.e. the entity providing regulated bundled commodity service. The term ESCO is used in this document to refer to either a gas or electric supplier. The principal parties involved in this Transaction Set 814 implementation guide are: ➢ The end-use customer (Code 8R) ➢ The Utility (LDC) (Code 8S) ➢ The Supplier (ESCO or ESCO) (Code SJ).
Companion Documents		• All of the applicable business rules for New York are not necessarily documented in this implementation guide. Accordingly, the following documents should be reviewed where further clarification is needed: ➢ *Usage Business Process Document - Monthly* ➢ *TS 867 Monthly Usage Data Dictionary* ➢ *Implementation Guide for TS814 Account Maintenance (Change)* ➢ *Consolidated Billing Business Processes – Utility Rate Ready* ➢ *Consolidated Billing Business Processes – Utility Bill Ready* ➢ *Billing Business Processes – Single Retailer Model*

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Implementation Guideline Field Descriptions

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

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

Notes:

Required

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

REF~12~011231287654398

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

One or more examples.

Data Element Summary

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

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

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

These columns show the X12 attributes for each data element:

M = Mandatory
O = Optional
X = Conditional

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

1/30 = Minimum 1, Maximum 30

867 Monthly Usage

Functional Group ID=PT

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Product Transfer and Resale Report Transaction Set (867) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to: (1) report information about product that has been transferred from one location to another; (2) report sales of product from one or more locations to an end customer; or (3) report sales of a product from one or more locations to an end customer, and demand beyond actual sales (lost orders). Report may be issued by either buyer or seller.

Notes:

This document contains the format and structure for the 867 transaction used to communicate either current billed consumption, current metered usage, calendar month estimated consumption or an Interim Bill Notice. Each 867 transaction contains current usage for a single account for a single commodity (Electric or Gas).

Heading:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
1	010	ST	Transaction Set Header	M	1		
4	020	BPT	Beginning Segment for Product Transfer and Resale	M	1		
5	050	DTM	Date/Time Reference (Next Meter Read Date)	O	1		
			LOOP ID - N1			1	
6	080	N1	Name (ESCO)	O	1		
			LOOP ID - N1			1	
7	080	N1	Name (Utility)	O	1		
			LOOP ID - N1			1	
8	080	N1	Name (Customer)	O	1		
9	100	N3	Address Information (Service Address)	O	1		
10	110	N4	Geographic Location (Service Address)	O	1		
11	120	REF	Reference Identification (ESCO Customer Account Number)	O	1		
12	120	REF	Reference Identification (Utility Account Number)	O	1		
13	120	REF	Reference Identification (Previous Utility Account Number)	O	1		
14	120	REF	Reference Identification (Bill Option)	O	1		

Detail:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - PTD			>1	
15	010	PTD	Product Transfer and Resale Detail (Metered Consumption Summary)	M	1		
16	030	REF	Reference Identification (Utility Rate Service Class)	O	1		
17	030	REF	Reference Identification (Rate Sub Class)	O	1		
			LOOP ID - QTY			>1	
18	110	QTY	Quantity	O	1		
19	140	AMT	Monetary Amount (Back Out Credit)	O	1		
20	160	MEA	Measurements	O	40		
23	210	DTM	Date/Time Reference (Period Start Date)	O	1		
24	210	DTM	Date/Time Reference (Period End Date)	O	1		

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			LOOP ID - PTD			>1
25	010	PTD	Product Transfer and Resale Detail (Un-metered Consumption)	M	1	
26	030	REF	Reference Identification (Utility Rate Service Class)	O	1	
27	030	REF	Reference Identification (Rate Sub Class)	O	1	
			LOOP ID - QTY			>1
28	110	QTY	Quantity	O	1	
29	140	AMT	Monetary Amount (Back Out Credit)	O	1	
30	160	MEA	Measurements	O	40	
31	210	DTM	Date/Time Reference (Period Start Date)	O	1	
32	210	DTM	Date/Time Reference (Period End Date)	O	1	
			LOOP ID - PTD			>1
33	010	PTD	Product Transfer and Resale Detail (Metered Consumption Detail)	M	1	
34	030	REF	Reference Identification (Meter Number)	O	1	
35	030	REF	Reference Identification (Utility Rate Service Class)	O	1	
36	030	REF	Reference Identification (Rate Sub Class)	O	1	
			LOOP ID - QTY			>1
37	110	QTY	Quantity	O	1	
38	140	AMT	Monetary Amount (Back Out Credit)	O	1	
39	160	MEA	Measurements	O	40	
42	210	DTM	Date/Time Reference (Period Start Date)	O	1	
43	210	DTM	Date/Time Reference (Period End Date)	O	1	
			LOOP ID - PTD			1
44	010	PTD	Product Transfer and Resale Detail (Interim Bill Notice)	O	1	
			LOOP ID - PTD			>1
45	010	PTD	Product Transfer and Resale Detail (Metered Usage Detail)	M	1	
46	030	REF	Reference Identification (Meter Number)	O	1	
47	030	REF	Reference Identification (Service Point ID)	O	1	
48	030	REF	Reference Identification (Number of Dials)	O	1	
49	030	REF	Reference Identification (Utility Rate Service Class)	O	1	
50	030	REF	Reference Identification (Rate Sub Class)	O	1	
			LOOP ID - QTY			>1
51	110	QTY	Quantity	O	1	
52	140	AMT	Monetary Amount (Back Out Credit)	O	1	
53	160	MEA	Measurements (Usage)	O	40	
55	160	MEA	Measurements (Meter Multiplier)	O	1	
56	160	MEA	Measurements (Metered Base Load)	O	1	
57	160	MEA	Measurements (Therm Factor)	O	1	
58	160	MEA	Measurements (Degree Day Factor)	O	1	
59	160	MEA	Measurements (Transformer Loss Adjustment Factor)	O	1	
60	210	DTM	Date/Time Reference (Period Start Date)	O	1	
61	210	DTM	Date/Time Reference (Period End Date)	O	1	

Summary:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
62	030	SE	Transaction Set Trailer	M	1		
E-1			Examples				

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

ST~867~0000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**ST01**	**143**	**Transaction Set Identifier Code** 867 Product Transfer and Resale Report	**M ID 3/3**
Mand.	**ST02**	**329**	**Transaction Set Control Number** This control number uniquely identifies the transaction set delimited by this ST and it's corresponding SE segment within a functional group.	**M AN 4/9**

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Segment: **BPT** **Beginning Segment for Product Transfer and Resale**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the Product Transfer and Resale Report Transaction Set and transmit identifying data
Syntax Notes:
1 If either BPT05 or BPT06 is present, then the other is required.
Semantic Notes:
1 BPT02 identifies the transfer/resale number.
2 BPT03 identifies the transfer/resale date.
3 BPT08 identifies the transfer/resale time.
4 BPT09 is used when it is necessary to reference a Previous Report Number.
Comments:
Notes: Required

BPT~00~2006042430326001~20060424~DD

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**BPT01**	**353**	**Transaction Set Purpose Code**		**M**	**ID 2/2**
			00	Original Conveys original readings for the account being reported.		
			01	Cancellation Indicates that the readings previously reported for the account are to be ignored.		
Must Use	**BPT02**	**127**	**Reference Identification**		**O**	**AN 1/30**
			A unique transaction identification number assigned by the originator of this transaction. This number should be unique over time.			
Mand.	**BPT03**	**373**	**Date**		**M**	**DT 8/8**
			Date Expressed as CCYYMMDD. Transaction Creation Date. This is the date that the transaction was created by the sender's application system.			
Cond	**BPT04**	**755**	**Report Type Code**		**O**	**ID 2/2**
			This element is not required when the PTD*BK (Interim Bill Notice) loop is being sent.			
			DD	Distributor Inventory Report Consumption		
Cond	**BPT07**	**306**	**Action Code**		**O**	**ID 1/2**
			IN	Interim Calendar Month Estimate As specified in its Utility Maintained EDI Guide, this code will be used by the utility to identify an 867MU transaction containing estimated consumption for a calendar month period.		
			F	Final Used only when reporting final consumption for an account when the customer account is final with the utility.		
Cond	**BPT09**	**127**	**Reference Identification**		**O**	**AN 1/30**
			When BPT01 = 01 this element should contain the transaction identification number sent in BPT02 in the transaction that is being cancelled.			

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Segment: **DTM** **Date/Time Reference (Next Meter Read Date)**
Position: 050
Loop:
Level: Heading
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: Optional

DTM~634~20061203

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**DTM01**	**374**	**Date/Time Qualifier**		**M**	**ID 3/3**
			634	Next Review Date Next Meter Read Date		
Must Use	**DTM02**	**373**	**Date**		**X**	**DT 8/8**
			The date of the next scheduled meter read in the form CCYYMMDD.			

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Segment: **N1** **Name (ESCO)**
Position: 080
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:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: Required

N1~SJ~~24~123456789

Data Element Summary

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

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Segment: **N1** **Name (Utility)**
Position: 080
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:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: Required

N1~8S~~24~012345678

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.		
	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 the Federal Tax ID			

FILED

Segment: **N1** **Name (Customer)**
Position: 080
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
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:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: Required

This N1 Loop (N101=8R) is required to transmit data pertaining to an end use retail customer. The N1 (Customer) and REF*12 (Utility Account Number) segments within this N1 Loop must be present in all transactions. The REF*45 (Previous Utility Account Number) segment is conditional and all other segments in this N1 loop are optional.

The sender may populate the N102 element (see below) with "NAME" or the customer's actual name may be provided by mutual agreement.

N1~8R~JOHN SMITH
N1~8R~NAME

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**N101**	**98**	**Entity Identifier Code** 8R Consumer Service Provider (CSP) Customer Identifies the end use customer targeted by this transaction.	**M**	**ID 2/3**
Must Use	**N102**	**93**	**Name** Customer's name or NAME To ensure compliance with ANSI X12 requirements, this element must contain either the customer's literal name or 'NAME'. The customer's literal name is not necessary for successful completion of the transaction but may be provided by mutual agreement between trading partners.	**X**	**AN 1/60**

FILED

Segment: **N3** **Address Information (Service Address)**
Position: 100
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: Optional

N3~STREET ADDRESS~OVERFLOW ADDRESS

Data Element Summary

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

FILED

Segment: **N4** **Geographic Location (Service Address)**
Position: 110
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
Comments: **1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Conditional

Service Address information may be provided in this transaction at the discretion of the Utility. When service address information is being sent, the N4 segment should be sent. Please review the element notes for the N401, N402 and N403 in the TS814 Change Implementation Guide for more detailed information regarding how each Utility may communicate service address information.

N4~CITYNAME~ST~12345

Data Element Summary

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

FILED

Segment: **REF** **Reference Identification (ESCO Customer Account Number)**
Position: 120
Loop: N1 Optional (Must Use)
Level: Heading
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.
Comments:
Notes: Optional

REF~11~A12345009Z

Data Element Summary

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

FILED

Segment: **REF** **Reference Identification (Utility Account Number)**
Position: 120
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes:
Required
REF~12~011231287654398
REF~12~011231287654398~U

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier** 12 Billing Account REF02 is the Utility-assigned account number for the customer.	**M**	**ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Utility assigned customer account number The utility account number must be supplied without intervening spaces or non-alphanumeric characters. (Characters added to aid in visible presentation on a bill, for example, should be removed)	**X**	**AN 1/30**
Cond	**REF03**	**352**	**Description** If specified in its Utility Maintained EDI Guide, the REF03 element in the REF*12 segment will only be present in 867MU or 867HU transactions initiated by the utility where consumption is electric. This element may be used by the utility to further define the electric service as an un-metered service delivery point. U Un-Metered Service	**X**	**AN 1/80**

FINAL

Segment: **REF** **Reference Identification (Previous Utility Account Number)**
Position: 120
Loop: N1 Optional (Must Use)
Level: Heading
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.
Comments:
Notes: Conditional

Where a utility changes an existing customer's account number as a business process (and as noted in its Utility Maintained EDI Guide),~~This~~ this segment must be sent when the utility assigned account number for the customer has changed in the last 90 days.

REF~45~9194132485705971

Data Element Summary

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

FILED

Segment: **REF** **Reference Identification (Bill Option)**
Position: 120
Loop: N1 Optional (Dependent)
Level: Heading
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.
Comments:
Notes: Optional

As specified in its Utility Maintained EDI Guide, a Utility that supports this segment will indicate the bill option that is in effect for the period defined in the 867.
REF*BLT*LDC

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			Code qualifying the Reference Identification			
			BLT	Billing Type		
				Bill Presenter		
Must Use	**REF02**	**127**	**Reference Identification**		**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			DUAL	Each Party Presents a Separate Bill		
			ESP	ESCO is the Consolidated Bill Presenter		
			LDC	Utility is the Consolidated Bill Presenter		

FILED

Segment: **PTD** **Product Transfer and Resale Detail (Metered Consumption Summary)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes:
1 If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Conditional

Three PTD Loops with codes of BC, BO, or BQ have been provided for transmitting current consumption data. It is required that you use the correct PTD segment for the type of data you are transmitting, e.g. do not use a PTD segment where PTD01=BQ to send un-metered consumption information. Consumption for un-metered service points is summarized separately in a PTD loop with PTD01=BC.

This PTD segment is for summarized metered consumption. Each PTD loop will include a separate QTY loop for each unit of measure and daily reported peaks as applicable.

The same Utility rate service class, rate subclass and load profile code must apply to all service points summarized in the same PTD loop. If some service end points are in a different rate service class than others, the data from those service end points should be sent in a separate PTD loop where PTD01=BO.

PTD~BO~~OZ~GAS

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**PTD01**	**521**	**Product Transfer Type Code**		**M**	**ID 2/2**
			BO	Designated Items Total for metered service points on the account for the commodity type indicated in PTD05		
Must Use	**PTD04**	**128**	**Reference Identification Qualifier**		**X**	**ID 2/3**
			OZ	Product Number PTD05 contains a code identifying the commodity reported in this transaction.		
Must Use	**PTD05**	**127**	**Reference Identification**		**X**	**AN 1/30**
			EL	Electric		
			GAS	Gas		

FILE

Segment: **REF** **Reference Identification (Utility Rate Service Class)**
Position: 030
Loop: PTD Mandatory
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.
Comments:
Notes: Required

REF~NH~A001
REF~NH~1150100

Data Element Summary

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

FILED

Segment: **REF** **Reference Identification (Rate Sub Class)**
Position: 030
Loop: PTD Mandatory
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.
Comments:
Notes: Conditional

REF~PR~RSVD
REF~PR~NRSVD

Data Element Summary

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

FILED

Segment: **QTY** **Quantity**
Position: 110
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify quantity information. A separate Quantity loop is used for each register or measurement type being summarized.
Syntax Notes:
1 At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes:
1 QTY04 is used when the quantity is non-numeric.
Comments:
Notes: Required

This QTY loop is required to report the number of meters being summarized in the PTD=BO loop.

QTY~FL~2 (indicates 2 Meters)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**QTY01**	**673**	**Quantity Qualifier** FL Units	**M**	**ID 2/2**
Must Use	**QTY02**	**380**	**Quantity** Contains the number of summarized meters in this loop.	**X**	**R 1/15**

FILED

Segment: **AMT** **Monetary Amount (Back Out Credit)**
Position: 140
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes: Conditional

As specified in its Utility Maintained EDI Guide, this segment will be sent by the utility and represents the amount backed out from a customer's 'bundled' bill to provide a retail adjustment credit for the delivered quantity supplied by an ESCO.

AMT~ZT~-23.29
AMT~ZT~0.00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**AMT01**	**522**	**Amount Qualifier Code** ZT Prorated Amount Back Out Credit amount reported in AMT02.	**M**	**ID 1/3**
Mand.	**AMT02**	**782**	**Monetary Amount** The amount credited to a customer's 'bundled' bill to provide a retail adjustment credit for the delivered quantity supplied by an ESCO. If a utility's rate structure results in a customer's bill with supply and delivery bundled in a single charge, the adjustment credit is based on either the average daily market price of the commodity or on a tariff filed Retail Access Credit (RAC).	**M**	**R 1/18**

FILED

Segment: **MEA** **Measurements**
Position: 160
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights.
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: Required

Consumption shown with measurement type and daily peak period.

MEA~BR~PRQ~10101~KH~~~41 <--- 10101 kWh billed off peak use
MEA~AN~PRQ~12.3~K1~~~51 <--- 12.3 kW total recorded demand
MEA~BR~PRQ~11.4~K1~~~51 <--- 11.4 kW total billed demand
MEA~AN~PRQ~2.1~K1~~~41 <--- 2.1 kW off peak recorded demand
MEA~AN~PRQ~7.3~K1~~~42 <--- 7.3 kW on peak recorded demand
MEA~AN~PRQ~3~K1~~~43 <--- 3 kW shoulder peak recorded demand
MEA~AN~PRQ~750~KH~~~41 <--- 750 kWh off peak use
MEA~AN~PRQ~1275~KH~~~42 <--- 1275 kWh on peak use
MEA~EN~PRQ~350~KH~~~43 <--- 350 kWh estimated shoulder peak use
MEA~AN~PRQ~600~HH <---600 ccf gas, total actual consumption

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	**MEA01**	**737**	**Measurement Reference ID Code**		**O**	**ID 2/2**
			AN	Work Period Actual		
			BR	Billed History		
			EN	Environmental Conditions Period Estimated		
Must Use	**MEA02**	**738**	**Measurement Qualifier**		**O**	**ID 1/3**
			PRQ	Product Reportable Quantity Consumption		
Must Use	**MEA03**	**739**	**Measurement Value**		**X**	**R 1/20**
			Quantity of the consumption delivered for the service period.			

FILE

Must Use	**MEA04**	**C001**	**Composite Unit of Measure**		**X**	
Mand.	**C00101**	**355**	**Unit or Basis for Measurement Code**		**M**	**ID 2/2**
			HH	Hundred Cubic Feet		
				ccf		
			K1	Kilowatt Demand		
			K2	Kilovolt Amperes Reactive Demand		
			K3	Kilovolt Amperes Reactive Hour		
			K4	Kilovolt Amperes		
			K5	Kilovolt Amperes Reactive		
			K7	Kilowatt		
			KH	Kilowatt Hour		
			TD	Therms		
			TZ	Thousand Cubic Feet		
Cond	**MEA07**	**935**	**Measurement Significance Code**		**O**	**ID 2/2**
			When PTD05 = GAS, this element is not used.			
			41	Off Peak		
				For Consolidated Edison, this code will be used to designate Small Time of Use Off Peak Energy.		
			42	On Peak		
				For Consolidated Edison, this code will be used to designate Small Time of Day On Peak Energy.		
			43	Intermediate		
				Intermediate Peak		
			45	Per Gallon		
				Summer On Peak		
			49	Mist		
				Winter On Peak		
			50	Predominant		
				Winter Mid Peak		
			51	Total		
				For Consolidated Edison, this code will be used to designate Total Energy or Total Billed Demand.		
			57	Boarded or Blocked Up		
				Summer Total		
			58	Planned		
				Winter Total		
			73	Low to High		
				Summer Off Peak		
			74	Low to Medium		
				Summer Intermediate Peak		
			75	Low to Moderate		
				Winter Off Peak		
			84	Good to High		
				High Tension On Peak Energy		
			85	High		
				High Tension Off Peak Energy		
			86	Budgeted		
				Low Tension On Peak Energy		
			87	Forecast		
				Low Tension Off Peak Energy		
			88	Adjusted		
				Low Tension Total Energy		
			89	Allocated		
				Low Tension Primary Demand		
			90	Increasing		
				Low Tension Secondary Demand		
			91	Stable		
				Low Tension Transmission Demand		
			92	Declining		
				High Tension Total Energy		
			93	Previous		

FILED

94	High Tension Primary Demand Potential High Tension Transmission Demand

FILED

Segment: **DTM** **Date/Time Reference (Period Start Date)**
Position: 210
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: Required

DTM~150~20060315

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**
			Start date of the period reported in the current QTY loop in the form CCYYMMDD.			

FILED

Segment: **DTM** **Date/Time Reference (Period End Date)**
Position: 210
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: Required

DTM~151~20060415

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**DTM01**	**374**	**Date/Time Qualifier** 151 Service Period End	**M**	**ID 3/3**
Must Use	**DTM02**	**373**	**Date** End date of the period reported in the current QTY loop in the form CCYYMMDD.	**X**	**DT 8/8**

FILED

Segment: **PTD** **Product Transfer and Resale Detail (Un-metered Consumption)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes:
1 If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Conditional

This PTD loop is required when reporting un-metered consumption.

A single PTD loop is used to report all un-metered consumption for a period when the same rate service class (and subclass, as applicable) applies to all of the un-metered consumption being reported in a transaction. If more than one rate service class (or subclass) is applicable to the un-metered usage being reported on an account, separate PTD loops must be sent for each rate class.

PTD~BC~~~OZ~EL

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**PTD01**	**521**	**Product Transfer Type Code**		**M**	**ID 2/2**
			BC	Issue - Other Agency Total for all unmetered Service points on the account for the commodity type indicated in PTD05.		
Must Use	**PTD04**	**128**	**Reference Identification Qualifier**		**X**	**ID 2/3**
			OZ	Product Number PTD05 contains a code identifying the commodity reported in this transaction.		
Must Use	**PTD05**	**127**	**Reference Identification**		**X**	**AN 1/30**
			EL	Electric		
			GAS	Gas		

FILE

Segment: **REF** **Reference Identification (Utility Rate Service Class)**
Position: 030
Loop: PTD Mandatory
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.
Comments:
Notes: Required

REF~NH~A001
REF~NH~1150100

Data Element Summary

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

FILED

Segment: **REF** **Reference Identification (Rate Sub Class)**
Position: 030
Loop: PTD Mandatory
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.
Comments:
Notes: Conditional

REF~PR~RSVD
REF~PR~NRSVD

Data Element Summary

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

FILED

Segment: **QTY** **Quantity**
Position: 110
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify quantity information.
Syntax Notes:
1 At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes:
1 QTY04 is used when the quantity is non-numeric.
Comments:
Notes: Required.
A separate QTY loop is used to indicate the number of un-metered service points summarized in this loop.

QTY~FL~44 (indicates 44 un-metered points)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**QTY01**	**673**	**Quantity Qualifier** FL Units	**M ID 2/2**
Must Use	**QTY02**	**380**	**Quantity** Contains the number of un-metered points reported in this period.	**X R 1/15**

FILE

Segment: **AMT** **Monetary Amount (Back Out Credit)**
Position: 140
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes: Conditional

As specified in its Utility Maintained EDI Guide, this segment will be sent by the utility and represents the amount backed out from a customer's 'bundled' bill to provide a retail adjustment credit for the delivered quantity supplied by an ESCO.

AMT~ZT~-23.29
AMT~ZT~0.00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**AMT01**	**522**	**Amount Qualifier Code** ZT Prorated Amount Back Out Credit amount reported in AMT02.	**M**	**ID 1/3**
Mand.	**AMT02**	**782**	**Monetary Amount** The amount credited to a customer's 'bundled' bill to provide a retail adjustment credit for the delivered quantity supplied by an ESCO. if a utility's rate structure results in a customer's bill with supply and delivery bundled in a single charge, the adjustment credit is based on either the average daily market price of the commodity or on a tariff filed Retail Access Credit (RAC).	**M**	**R 1/18**

FILED

Segment: **MEA** **Measurements**
Position: 160
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights.
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: Required

Consumption shown with measurement type.

MEA~BR~PRQ~10101~KH (indicates 10101 kWh consumption)

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	**MEA01**	**737**	**Measurement Reference ID Code**		**O**	**ID 2/2**
			AN	Work Period Actual		
			BR	Billed History		
			EN	Environmental Conditions Period Estimated		
Must Use	**MEA02**	**738**	**Measurement Qualifier**		**O**	**ID 1/3**
			PRQ	Product Reportable Quantity Consumption		
Must Use	**MEA03**	**739**	**Measurement Value**		**X**	**R 1/20**
			Quantity of the consumption delivered for the service period.			
Must Use	**MEA04**	**C001**	**Composite Unit of Measure**		**X**	
Mand.	**C00101**	**355**	**Unit or Basis for Measurement Code**		**M**	**ID 2/2**
			HH	Hundred Cubic Feet ccf		
			K1	Kilowatt Demand		
			K2	Kilovolt Amperes Reactive Demand		
			K3	Kilovolt Amperes Reactive Hour		
			K4	Kilovolt Amperes		
			K5	Kilovolt Amperes Reactive		
			K7	Kilowatt		
			KH	Kilowatt Hour		
			TD	Therms		
			TZ	Thousand Cubic Feet		

FILED

Segment: **DTM** **Date/Time Reference (Period Start Date)**
Position: 210
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: Required

DTM~150~20060315

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**
			Start date of the period reported in the current QTY loop in the form CCYYMMDD.			

FILED

Segment: **DTM** **Date/Time Reference (Period End Date)**
Position: 210
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: Required

DTM~151~20060415

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**DTM01**	**374**	**Date/Time Qualifier** 151 Service Period End	**M**	**ID 3/3**
Must Use	**DTM02**	**373**	**Date** End date of the period reported in the current QTY loop in the form CCYYMMDD.	**X**	**DT 8/8**

FILED

Segment: **PTD** **Product Transfer and Resale Detail (Metered Consumption Detail)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes:
1 If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Conditional

Required when metered consumption is being reported by meter. When recorded usage data is being reported by meter (required in the Single Retailer model), the data should be sent in the PTD~PM loop and not this loop.

Each metered service point must be sent in a separate PTD loop (PTD01=BQ) with the consumption for the period reported in separate QTY loops within that PTD loop. Each PTD*BQ loop will include the meter number, rate class (and subclass, as applicable), quantity of consumption, measurement unit, and reported period start and end dates.

PTD~BQ~~~OZ~EL

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**PTD01**	**521**	**Product Transfer Type Code**		**M**	**ID 2/2**
			BQ	Other Detail of metered service points on the account for the commodity type indicated in PTD05.		
Must Use	**PTD04**	**128**	**Reference Identification Qualifier**		**X**	**ID 2/3**
			OZ	Product Number PTD05 contains a code identifying the commodity reported in this transaction.		
Must Use	**PTD05**	**127**	**Reference Identification**		**X**	**AN 1/30**
			EL	Electric		
			GAS	Gas		

FILED

Segment: **REF** **Reference Identification (Meter Number)**
Position: 030
Loop: PTD Mandatory
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.
Comments:
Notes: Required

REF~MG~012345678

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier** MG Meter Number	**M**	**ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Utility assigned meter number	**X**	**AN 1/30**

FILED

Segment: **REF** **Reference Identification (Utility Rate Service Class)**
Position: 030
Loop: PTD Mandatory
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.
Comments:
Notes: Required

REF~NH~A001
REF~NH~1150100

Data Element Summary

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

FILED

Segment: **REF** **Reference Identification (Rate Sub Class)**
Position: 030
Loop: PTD Mandatory
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.
Comments:
Notes: Conditional

REF~PR~RSVD
REF~PR~NRSVD

Data Element Summary

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

FILED

Segment: **QTY** **Quantity**
Position: 110
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify quantity information.
Syntax Notes:
1 At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes:
1 QTY04 is used when the quantity is non-numeric.
Comments:
Notes: Required

QTY~FL~1 = 1 Meter

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**QTY01**	**673**	**Quantity Qualifier** FL Units	**M**	**ID 2/2**
Must Use	**QTY02**	**380**	**Quantity** Default to 1.	**X**	**R 1/15**

FILED

Segment: **AMT** **Monetary Amount (Back Out Credit)**
Position: 140
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes: Conditional

As specified in its Utility Maintained EDI Guide, this segment will be sent by the utility and represents the amount backed out from a customer's 'bundled' bill to provide a retail adjustment credit for the delivered quantity supplied by an ESCO.

AMT~ZT~-23.29
AMT~ZT~0.00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**AMT01**	**522**	**Amount Qualifier Code** ZT Prorated Amount Back Out Credit amount reported in AMT02.	**M**	**ID 1/3**
Mand.	**AMT02**	**782**	**Monetary Amount** The amount credited to a customer's 'bundled' bill to provide a retail adjustment credit for the delivered quantity supplied by an ESCO. if a utility's rate structure results in a customer's bill with supply and delivery bundled in a single charge, the adjustment credit is based on either the average daily market price of the commodity or on a tariff filed Retail Access Credit (RAC).	**M**	**R 1/18**

FILED

Segment: **MEA** **Measurements**
Position: 160
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: Conditional

Actual metered consumption should be sent unless actual is not available after billing. If actual consumption is not available then billed consumption should be sent and MEA01 should contain "BR".

MEA~BR~PRQ~10101~KH~~~41 <--- 10101 kWh billed off peak use
MEA~AN~PRQ~12.3~K1~~~51 <--- 12.3 kW total recorded demand
MEA~BR~PRQ~11.4~K1~~~51 <--- 11.4 kW total billed demand
MEA~AN~PRQ~2.1~K1~~~41 <--- 2.1 kW off peak recorded demand
MEA~AN~PRQ~7.3~K1~~~42 <--- 7.3 kW on peak recorded demand
MEA~AN~PRQ~3~K1~~~43 <--- 3 kW shoulder peak recorded demand
MEA~AN~PRQ~750~KH~~~41 <--- 750 kWh off peak use
MEA~AN~PRQ~1275~KH~~~42 <--- 1275 kWh on peak use
MEA~EN~PRQ~350~KH~~~43 <--- 350 kWh estimated shoulder peak use
MEA~AN~PRQ~600~HH <---600 ccf gas, total actual consumption

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	**MEA01**	**737**	**Measurement Reference ID Code**		**O**	**ID 2/2**
			AN	Work Period Actual		
			BR	Billed History Use only when actual or estimated consumption is not available.		
			EN	Environmental Conditions Period Estimated		
Must Use	**MEA02**	**738**	**Measurement Qualifier**		**O**	**ID 1/3**
			PRQ	Product Reportable Quantity Consumption		
Must Use	**MEA03**	**739**	**Measurement Value**		**X**	**R 1/20**
			Quantity of the consumption delivered for the service period.			

FILED

Must Use	**MEA04**	**C001**	**Composite Unit of Measure**		**X**	
Mand.	**C00101**	**355**	**Unit or Basis for Measurement Code**		**M**	**ID 2/2**
			HH	Hundred Cubic Feet		
				ccf		
			K1	Kilowatt Demand		
			K2	Kilovolt Amperes Reactive Demand		
			K3	Kilovolt Amperes Reactive Hour		
			K4	Kilovolt Amperes		
			K5	Kilovolt Amperes Reactive		
			K7	Kilowatt		
			KH	Kilowatt Hour		
			TD	Therms		
			TZ	Thousand Cubic Feet		
Cond.	**MEA07**	**935**	**Measurement Significance Code**		**O**	**ID 2/2**
			When PTD05 = GAS, this element is not used.			
			41	Off Peak		
				For Consolidated Edison, this code will be used to designate Small Time of Use Off Peak Energy.		
			42	On Peak		
				For Consolidated Edison, this code will be used to designate Small Time of Day On Peak Energy.		
			43	Intermediate		
				Intermediate Peak		
			45	Per Gallon		
				Summer On Peak		
			49	Mist		
				Winter On Peak		
			50	Predominant		
				Winter Mid Peak		
			51	Total		
				For Consolidated Edison, this code will be used to designate Total Energy or Total Billed Demand.		
			57	Boarded or Blocked Up		
				Summer Total		
			58	Planned		
				Winter Total		
			73	Low to High		
				Summer Off Peak		
			74	Low to Medium		
				Summer Intermediate Peak		
			75	Low to Moderate		
				Winter Off Peak		
			84	Good to High		
				High Tension On Peak Energy		
			85	High		
				High Tension Off Peak Energy		
			86	Budgeted		
				Low Tension On Peak Energy		
			87	Forecast		
				Low Tension Off Peak Energy		
			88	Adjusted		
				Low Tension Total Energy		
			89	Allocated		
				Low Tension Primary Demand		
			90	Increasing		
				Low Tension Secondary Demand		

FILED

91	Stable
	Low Tension Transmission Demand
92	Declining
	High Tension Total Energy
93	Previous
	High Tension Primary Demand
94	Potential
	High Tension Transmission Demand

FILED

Segment: **DTM** **Date/Time Reference (Period Start Date)**
Position: 210
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: Required

DTM~150~20060315

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**
			Start date of the period reported in the current QTY loop in the form CCYYMMDD.			

FILED

Segment: **DTM** **Date/Time Reference (Period End Date)**
Position: 210
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: Required

DTM~151~20060415

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**DTM01**	**374**	**Date/Time Qualifier** 151 Service Period End	**M**	**ID 3/3**
Must Use	**DTM02**	**373**	**Date** End date of the period reported in the current QTY loop in the form CCYYMMDD.	**X**	**DT 8/8**

FILED

Segment: **PTD** **Product Transfer and Resale Detail (Interim Bill Notice)**
Position: 010
Loop: PTD Optional (Dependent)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes:
1 If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Conditional

This PTD loop is used by a Utility to notify an ESCO that the Utility intends to bill the customer even though no usage information, either actual or estimated, is available to be reported. This segment is only applicable to the Utility Bill Ready mode.
In that model, the Utility sends an 867MU transaction to the ESCO to open a bill window for a specific account. For accounts on a bi-monthly meter read cycle that are billed monthly, for example customers enrolled in budget bill plans, and no usage information is available for the interim month, the Utility will send an 867MU transaction containing only an Interim Bill Notice PTD loop (PTD01=BK). When the Utility will estimate consumption for the interim month, the 867MU transaction should provide the estimated usage in the appropriate PTD loop (i.e. PTD01=BO, PTD01=BC or PTD01=BQ, as applicable) and an Interim Bill Notice PTD loop should not be sent.
Transmission of this loop provides notice to the ESCO that an interim bill will be issued by the Utility and the ESCO may, but is not required to, bill the customer. If the ESCO chooses to bill the customer, they must return an 810 Invoice containing their charges for the interim month consolidated bill within the current bill window. An Interim Bill Notice PTD loop may not be used to communicate usage information since this loop contains no QTY loops.

PTD~BK~~~OZ~GAS

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**PTD01**	**521**	**Product Transfer Type Code**		**M**	**ID 2/2**
			BK	Modification		
Must Use	**PTD04**	**128**	**Reference Identification Qualifier**		**X**	**ID 2/3**
			OZ	Product Number		
				PTD05 contains a code identifying the commodity reported in this transaction.		
Must Use	**PTD05**	**127**	**Reference Identification**		**X**	**AN 1/30**
			EL	Electric		
			GAS	Gas		

FILE

Segment: **PTD** **Product Transfer and Resale Detail (Metered Usage Detail)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes:
1 If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Conditional

This PTD loop was developed for use in the Single Retailer Model, to report details regarding recorded usage for the service end points associated with the customer account indicated in REF*12. The PTD*PM loop may also be provided by a meter reading entity where a multi-retailer billing model is in effect.

Data about each metered service point is sent in a separate PTD loop (PTD01=PM) with the usage for the period reported in separate QTY loops within that PTD loop. Each PTD loop should include a meter or service point id number, period start and end dates, beginning and ending meter reads, rate (and rate subclass), meter multiplier(s) and where applicable: number of dials and therm, degree day or loss adjustment factors.

PTD~PM~~~OZ~EL

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**PTD01**	**521**	**Product Transfer Type Code**		**M**	**ID 2/2**
			PM	Physical Meter Information Meter reading data for the metered service points on the account for the commodity type indicated in PTD05.		
Must Use	**PTD04**	**128**	**Reference Identification Qualifier**		**X**	**ID 2/3**
			OZ	Product Number PTD05 contains a code identifying the commodity reported in this transaction.		
Must Use	**PTD05**	**127**	**Reference Identification**		**X**	**AN 1/30**
			EL	Electric		
			GAS	Gas		

FINAL

Segment: **REF** **Reference Identification (Meter Number)**
Position: 030
Loop: PTD Mandatory
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.
Comments:
Notes: Conditional

Each measurement point reported must be identified by either a meter number or a service point id.

REF~MG~012345678

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier** MG Meter Number	**M**	**ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Utility assigned meter number	**X**	**AN 1/30**

FILED

Segment: **REF** **Reference Identification (Service Point ID)**
Position: 030
Loop: PTD Mandatory
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.
Comments:
Notes: Conditional

Each measurement point reported must be identified by either a meter number or a service point id.

REF~LU~2215974067

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			LU	Location Number Service Point ID A unique and permanent identification number that references the point where a meter is connected to the customer's service line.		
Must Use	**REF02**	**127**	**Reference Identification**		**X**	**AN 1/30**
			Service Point			

FILED

Segment: **REF** **Reference Identification (Number of Dials)**
Position: 030
Loop: PTD Mandatory
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.
Comments:
Notes: Conditional

This segment is required when the measurement device has dials.

REF~IX~5.0
REF~IX~4.1

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			IX	Item Number Number of Dials on the Meter This information is communicated in the form "x.y" where x is the number of dials to the left of the decimal point and y is the number of dials to the right of the decimal point.		
Must Use	**REF02**	**127**	**Reference Identification**		**X**	**AN 1/30**
			Number of Dials			

FILED

Segment: **REF** **Reference Identification (Utility Rate Service Class)**
Position: 030
Loop: PTD Mandatory
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.
Comments:
Notes: Required

REF~NH~A001
REF~NH~1150100

Data Element Summary

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

FILED

Segment: **REF** **Reference Identification (Rate Sub Class)**
Position: 030
Loop: PTD Mandatory
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.
Comments:
Notes: Conditional

REF~PR~RSVD
REF~PR~NRSVD

Data Element Summary

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

FILED

Segment: **QTY** **Quantity**
Position: 110
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify quantity information.
Syntax Notes:
1 At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes:
1 QTY04 is used when the quantity is non-numeric.
Comments:
Notes: Required

This segment is required to comply with X12 requirements. Where PTD01=PM the value in this QTY segment will always be 1.

QTY~1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**QTY01**	**673**	**Quantity Qualifier** FL Units	**M**	**ID 2/2**
Must Use	**QTY02**	**380**	**Quantity** Default to 1.	**X**	**R 1/15**

FILED

Segment: **AMT** **Monetary Amount (Back Out Credit)**
Position: 140
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes: Conditional

As specified in its Utility Maintained EDI Guide, this segment will be sent by the Utility and represents the amount backed out from a customer's 'bundled' bill to provide a retail adjustment credit for the delivered quantity supplied by an ESCO.

AMT~ZT~-23.29
AMT~ZT~0.00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**AMT01**	**522**	**Amount Qualifier Code** ZT Prorated Amount Back Out Credit amount reported in AMT02.	**M**	**ID 1/3**
Mand.	**AMT02**	**782**	**Monetary Amount** The amount credited to a customer's 'bundled' bill to provide a retail adjustment credit for the delivered quantity supplied by an ESCO. If a utility's rate structure results in a customer's bill with supply and delivery bundled in a single charge, the adjustment credit is based on either the average daily market price of the commodity or on a tariff filed Retail Access Credit (RAC).	**M**	**R 1/18**

FILED

Segment: **MEA** **Measurements (Usage)**
Position: 160
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: Required

When the PTD*PM loop is being sent, this MEA segment is required and actual or estimated metered usage data must be provided. If actual or estimated usage data is not available after billing, then billed consumption data may be sent in the PTD*BQ loop.

MEA~AA~PRQ~82~HH~9704~9786 Recorded gas usage is based on actual beginning and ending meter reads
MEA~AE~PRQ~456~KH~6717~7300~51 Recorded electric usage is based on an actual beginning read and an estimated ending read

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	**MEA01**	**737**	**Measurement Reference ID Code**		**O**	**ID 2/2**
			AA	Meter reading-beginning actual/ending actual		
			AE	Meter reading-beginning actual/ending estimated		
			EA	Meter reading-beginning estimated/ending actual		
			EE	Meter reading-beginning estimated/ending estimated		
Must Use	**MEA02**	**738**	**Measurement Qualifier**		**O**	**ID 1/3**
			PRQ	Product Reportable Quantity		
				Consumption		
Must Use	**MEA03**	**739**	**Measurement Value**		**X**	**R 1/20**
			Quantity of the consumption delivered for the service period. This amount is the difference between beginning and ending meter readings after adjustment for the meter multiplier and the transformer loss adjustment and/or therm factors have been applied.			
Must Use	**MEA04**	**C001**	**Composite Unit of Measure**		**X**	
Mand.	**C00101**	**355**	**Unit or Basis for Measurement Code**		**M**	**ID 2/2**
			HH	Hundred Cubic Feet		
				ccf		
			K1	Kilowatt Demand		
			K2	Kilovolt Amperes Reactive Demand		
			K3	Kilovolt Amperes Reactive Hour		
			K4	Kilovolt Amperes		
			K5	Kilovolt Amperes Reactive		
			K7	Kilowatt		
			KH	Kilowatt Hour		
			TD	Therms		
			TZ	Thousand Cubic Feet		

FILED

Must Use	**MEA05**	**740**	**Range Minimum**	**X**	**R 1/20**
			Beginning Reading		
Must Use	**MEA06**	**741**	**Range Maximum**	**X**	**R 1/20**
			Ending Reading		
Cond	**MEA07**	**935**	**Measurement Significance Code**	**O**	**ID 2/2**
			Not required when PTD05 = GAS.		
			41 Off Peak		
			42 On Peak		
			43 Intermediate		
			51 Total		

FILED

Segment: **MEA** **Measurements (Meter Multiplier)**
Position: 160
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: Required

When there is no meter multiplier for a specific measured end point, this segment should equal "1".

MEA~~MU~1
MEA~~MU~1.2

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	**MEA02**	**738**	**Measurement Qualifier**		**O**	**ID 1/3**
			MU	Multiplier Meter Multiplier		
Must Use	**MEA03**	**739**	**Measurement Value**		**X**	**R 1/20**
			Meter Multiplier			

FILED

Segment: **MEA** **Measurements (Metered Base Load)**
Position: 160
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: Conditional

GAS Service Only. As specified in its Utility Maintained EDI Guide, this segment will be sent by the utility to report the base quantity of gas used in a monthly period for the meter indicated in the REF*MG (Meter Number) segment or the service point referenced in the REF*LU (Service Point Id) segment.

MEA~~B1~109~HH

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	**MEA02**	**738**	**Measurement Qualifier**		**O**	**ID 1/3**
			B1	Base Number The minimum amount of gas expressed in ccf that a given meter location is expected to use during a period of 30.4375 days. This period represents 1/12 of any year (365.25 days). Base load usage does not vary with changes in temperature.		
Must Use	**MEA03**	**739**	**Measurement Value**		**X**	**R 1/20**
			Metered Base Load for the meter expressed as a quantity in ccf			
Must Use	**MEA04**	**C001**	**Composite Unit of Measure**		**X**	
Mand.	**C00101**	**355**	**Unit or Basis for Measurement Code**		**M**	**ID 2/2**
			HH	Hundred Cubic Feet ccf		

FILED

Segment: **MEA** **Measurements (Therm Factor)**
Position: 160
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: Conditional

GAS Service Only.
This factor is used to convert usage measured in CCF to Therms for billing purposes.
National Fuel Gas will not transmit this segment.

MEA~~CF~1.203

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	**MEA02**	**738**	**Measurement Qualifier**		**O**	**ID 1/3**
			CF	Capacitance Out The number provided in MEA03 can be used to convert a quantity of gas measured in ccf to therms.		
Must Use	**MEA03**	**739**	**Measurement Value**		**X**	**R 1/20**
			Therm Factor			

FILED

Segment: **MEA** **Measurements (Degree Day Factor)**
Position: 160
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: Conditional

GAS SERVICE ONLY

National Fuel will send this segment.

MEA~~TPF~6.0

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	**MEA02**	**738**	**Measurement Qualifier**		**O**	**ID 1/3**
			TPF	Temperature Factor The amount of gas expressed in ccf that a given meter location will use per heating degree day. It is also referred to as consumption per degree day. Heating degree days are the number of degrees that the average daily temperature is below 65 degrees Fahrenheit.		
Must Use	**MEA03**	**739**	**Measurement Value**		**X**	**R 1/20**
			Meter Degree day factor			

FILED

Segment: **MEA** **Measurements (Transformer Loss Adjustment Factor)**
Position: 160
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: Conditional

ELECTRIC SERVICE ONLY
This segment would be sent to provide the transformer loss adjustment factor to be applied when transformer losses are not measured by the meter.

When the service delivery point is before the transformer such that the customer is responsible for losses but the meter is after the transformer, and therefore does not record losses, the transformer loss factor will be greater than 1. For example, MEA~~CO~1.006 reflects a positive adjustment to the meter readings.

When the service delivery point is after the transformer such that the customer is NOT responsible for transformer losses but the meter readings reflect transformer losses because the meter is before the transformer, the transformer loss factor will be less than 1. For example, MEA~~CO~0.995 would reflect a negative adjustment to the meter reading.

MEA~~CO~0.995
MEA~~CO~1.02

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	**MEA02**	**738**	**Measurement Qualifier**		**O**	**ID 1/3**
			CO	Core Loss Transformer Loss Adjustment - Adjustment based on transformer location with respect to meter location.		
Must Use	**MEA03**	**739**	**Measurement Value**		**X**	**R 1/20**
			Transformer Loss Adjustment			

Segment: **DTM** **Date/Time Reference (Period Start Date)**
Position: 210
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: Required

DTM~150~20060315

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**
			Start date of the period reported in the current QTY loop in the form CCYYMMDD.			

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Segment: **DTM** **Date/Time Reference (Period End Date)**
Position: 210
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: Required

DTM~151~20060415

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**DTM01**	**374**	**Date/Time Qualifier** 151 Service Period End	**M**	**ID 3/3**
Must Use	**DTM02**	**373**	**Date** End date of the period reported in the current QTY loop in the form CCYYMMDD.	**X**	**DT 8/8**

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Segment: **SE** **Transaction Set Trailer**
Position: 030
Loop:
Level: Summary
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:
Comments: **1** SE is the last segment of each transaction set.
Notes: Required

SE~15~0001

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**

FILED

EXAMPLES

These examples are presented for illustrative purposes only. Although they are syntactically correct with respect to the published transaction standard for the TS867 Monthly Usage, it should be understood that these examples reflect certain assumptions regarding optional and conditional data segments in this standard. Accordingly, these examples are not necessarily indicative of the manner in which a specific Utility or ESCO would map a specific transaction.

Scenario 1 – Consumption for a Residential Account with Multiple Electric Meters
Part A. First Meter

ST*867*00000001!	Transaction Set header; transaction defined is an ***867***; control number assigned by originator
BPT*00*MU000098763*20061202*DD!	Transaction is an ***Original*** transaction; Unique id number for this transaction; transaction creation date; transaction reports consumption
DTM*634*20061231!	Date of next scheduled meter read
N1*SJ*ESCO NAME*1*006886291!	ESCO Name and DUNS number
N1*8S*NYSEG*1*006977763!	Utility Name and DUNS number
N1*8R*CUSTOMER NAME!	Customer Name
N3*PIDGEON HILL RD!	Customer service address - Street Address
N4*PORT CRANE*NY*13833!	Customer service address - city, state & zip
REF*11*ABC930!	ESCO customer account number
REF*12*N01000072810010!	Utility customer account number
PTD*BQ***OZ*EL!	PTD loop; "BQ" indicates ***consumption is reported by metered service point***; service is ***electric***
REF*MG*NLG0038095493!	Meter Number
REF*NH*NED0100R00!	Rate class
QTY*FL*1!	Number of service points associated with the reported consumption
AMT*ZT*-48.21!	Back-out credit
MEA*AN*PRQ*675*KH***51!	Measurement data; 'AN' indicates actual consumption; consumption reported is 675 kWh; '51' indicates Total
DTM*150*20061101!	Consumption period start date
DTM*151*20061130!	Consumption period end date
SE*19*00000001!	Transaction Set trailer; segment count; control number

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Scenario 1 – Consumption for a Residential Account with Multiple Electric Meters
Part B. Second Meter

ST*867*00000002!	Transaction Set header; transaction defined is an ***867***; control number assigned by originator
BPT*00*MU000098764*20061202*DD!	Transaction is an ***Original*** transaction; Unique id number for this transaction; transaction creation date; transaction reports consumption
DTM*634*20061231!	Date of next scheduled meter read
N1*SJ*ESCO NAME*1*006886291!	ESCO Name and DUNS number
N1*8S*NYSEG*1*006977763!	Utility Name and DUNS number
N1*8R*CUSTOMER NAME!	Customer Name
N3*PIDGEON HILL RD!	Customer service address – Street Address
N4*PORT CRANE*NY*13833!	Customer service address – city, state & zip
REF*11*ABC930!	ESCO customer account number
REF*12*N01000076421580!	Utility customer account number
PTD*BQ***OZ*EL!	PTD loop; "BQ" indicates ***consumption is reported by metered service point***; service is ***electric***
REF*MG*NLG0038013248!	Meter Number
REF*NH*NED0100R00!	Rate class
QTY*FL*1!	Number of service points associated with the reported consumption
AMT*ZT*-37.43!	Back-out credit
MEA*AN*PRQ*524*KH***51!	Measurement data; 'AN' indicates actual consumption; consumption reported is 524 kWh; '51' indicates Total
DTM*150*20061101!	Consumption period start date
DTM*151*20061130!	Consumption period end date
SE*19*00000002!	Transaction Set trailer; segment count; control number

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Scenario 2 – Final Consumption for an Un-metered Gas Account with Two Service End-Points

ST*867*00000001!	Transaction Set header; transaction defined is an ***867***; control number assigned by originator
BPT*00*67R200600827364*20060903*DD***F!	Transaction is an ***Original*** transaction; Unique id number for this transaction; transaction creation date; transaction reports consumption; this is ***final*** consumption for this customer
N1*SJ*ESCO NAME*1*006841283!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006976666!	Utility Name and DUNS number
N1*8R*CUSTOMER NAME!	Customer Name
REF*12*377504508!	Utility customer account number
PTD*BC***OZ*GAS!	PTD loop; "BC" indicates ***un-metered consumption***; service is ***gas***
REF*NH*3!	Utility rate class
REF*PR*9!	Utility rate sub-class
QTY*FL*2!	Number of service points represented by the summarized consumption
MEA*BR*PRQ*324*HH!	Measurement data; 'BR' indicates billed consumption; consumption reported is 324 ccf
DTM*150*20060731!	Consumption period start date
DTM*151*20060831!	Consumption period end date
SE*14*00000001!	Transaction Set trailer; segment count; control number

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Scenario 3 – Consumption for an Electric Account with Three Time of Day Periods

ST*867*00000001!	Transaction Set header; transaction defined is an ***867***; control number assigned by originator
BPT*00*MONU200607310028374*20060827*DD!	Transaction is an ***Original*** transaction; Unique id number for this transaction; transaction creation date; transaction reports consumption
DTM*634*20060924!	Date of next scheduled meter read
N1*SJ*ESCO NAME*1*006872849!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*24*160612110!	Utility Name and Federal Tax Id number
N1*8R*CUSTOMER NAME!	Customer Name
REF*12*245610!	Utility customer account number
REF*45*139088!	Previous utility customer account number
PTD*BQ***OZ*EL!	PTD loop; "BQ" indicates ***consumption is reported by metered service point***; service is ***electric***
REF*MG*82582420!	Utility meter number
REF*NH*04!	Rate class
REF*PR*TR3!	Utility rate sub-class
QTY*FL*1!	Number of service points associated with the reported consumption
MEA*AN*PRQ*140*KH***41!	Measurement data; 'AN' indicates actual consumption; consumption reported is 140 kWh; '41' indicates 'Off-peak' period
DTM*150*20060728!	Consumption period start date
DTM*151*20060824!	Consumption period end date
QTY*FL*1!	Number of service points associated with the reported consumption
MEA*AN*PRQ*245*KH***43!	Measurement data; 'AN' indicates actual consumption; consumption reported is 245 kWh; '43' indicates 'Intermediate (shoulder)' period
DTM*150*20060728!	Consumption period start date
DTM*151*20060824!	Consumption period end date
QTY*FL*1!	Number of service points associated with the reported consumption
MEA*AN*PRQ*404*KH***42!	Measurement data; 'AN' indicates actual consumption; consumption reported is 404 kWh; '42' indicates 'On-peak' period
DTM*150*20060728!	Consumption period start date
DTM*151*20060824!	Consumption period end date
SE*25*00000001!	Transaction Set trailer; segment count; control number

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Scenario 4 – Transaction Contains an Incorrect Account Number
Part A: 867 Monthly Usage

ST*867*00000001!	Transaction Set header; transaction defined is an **867**; control number assigned by originator
BPT*00*20060810867M0038274*20060919*DD!	Transaction is an Original transaction; Unique id number for this transaction; transaction creation date; transaction reports consumption
N1*SJ*ESCO NAME*1*006808872!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006982359!	Utility Name and DUNS number
N1*8R*CUSTOMER NAME!	Customer Name
REF*12*233939360100024!	Utility customer account number (incorrect)
PTD*BO***OZ*EL!	PTD loop; "BO" indicates summarized meter information for a metered account; service is electric
REF*NH*1234A!	Rate class
QTY*FL*1!	Number of service points associated with the reported consumption
MEA*AN*PRQ*675*KH***51!	Measurement data; 'AN' indicates actual consumption; consumption reported is 675 kWh; "51" equals total consumption for period
DTM*150*20060820!	Consumption period start date
DTM*151*20060919!	Consumption period end date
SE*13*00000001!	Transaction Set trailer; segment count; control number

Scenario 4 – Transaction Contains an Incorrect Account Number
Part B: ESCO sends 824 Application Advice

ST*824*00000001!	Transaction Set header; transaction defined is an ***824***; control number assigned by originator
BGN*11*200608210051843*20060920*****82!	Transaction is a ***Response***; Unique id number for transaction; creation date; '82' means receiver must resend
N1*SJ*ESCO NAME*1*006808872!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006982359!	Utility Name and DUNS number
N1*8R*CUSTOMER NAME!	Customer Name
REF*12*233939360100024!	Utility customer account number (incorrect)
OTI*TR*TN*20060810867M0038274*******867!	The 867 transaction being rejected was sent with this BPT reference number
TED*848*A76*****233939360100024!	Transaction is rejected for incorrect data; the error was an invalid account number(A76); number is echoed back
NTE*ADD*CANNOT LOCATE ACCT NO!	Optional text to clarify reject reason
SE*10*00000001!	Transaction Set trailer; segment count; control number

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Scenario 5 – Estimated Consumption for an Electric Account with a single meter
Part A: 867 Monthly Usage

ST*867*000000001!	Transaction Set header; transaction defined is an ***867***; control number assigned by originator
BPT*00*20060702NYSG_EST_CONS*20060702*DD!	Transaction is an ***Original*** transaction; Unique id number for this transaction; transaction creation date; transaction reports consumption
N1*SJ*ESCO NAME*1*006983564!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006977763!	Utility Name and DUNS number
N1*8R*CUSTOMER NAME!	Customer Name
REF*12*728100100020006!	Utility customer account number
PTD*BO***OZ*EL!	PTD loop; "BO" indicates ***summarized meter information for a metered account***; service is ***electric***
REF*NH*1150100!	Utility rate class
QTY*FL*2!	Number of service points associated with the reported consumption
MEA*EN*PRQ*163*KH***51!	Measurement data; 'EN' indicates estimated consumption; reported consumption is 163 kWh; "51" equals total consumption for period
DTM*150*20060501!	Consumption period start date
DTM*151*20060701!	Consumption period end date
SE*13*000000001!	Transaction Set trailer; segment count; control number

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Scenario 5 – Estimated Consumption for an Electric Account with a single meter
Part B: 867 Cancel Transaction

ST*867*000000001!	Transaction Set header; transaction defined is an ***867***; control number assigned by originator
BPT*01*20060702NYSG_EST_CANCEL*20060715*DD*****20060702NYSG_EST_CONS!	Transaction is a ***Cancel*** transaction; Unique id number for this transaction; transaction creation date; transaction reports consumption; original transaction number
N1*SJ*ESCO NAME*1*006983564!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006977763!	Utility Name and DUNS number
N1*8R*CUSTOMER NAME!	Customer Name
REF*12*728100100020006!	Utility customer account number
PTD*BO***OZ*EL!	PTD loop; "BO" indicates ***summarized meter information for a metered account***; service is ***electric***
REF*NH*1150100!	Utility rate class
QTY*FL*2!	Number of service points associated with the reported consumption
MEA*EN*PRQ*163*KH***51!	Measurement data; 'EN' indicates estimated consumption; reported consumption is 163 kWh; "51" equals total consumption for period
DTM*150*20060501!	Consumption period start date
DTM*151*20060701!	Consumption period end date
SE*13*000000001!	Transaction Set trailer; segment count; control number

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Scenario 5 – Estimated Consumption for an Electric Account with a single meter
Part C: New Original Transaction Containing Actual Consumption

ST*867*000000001!	Transaction Set header; transaction defined is an **867**; control number assigned by originator
BPT*00*20060702NYSG_ACT_CONS*20060717*DD!	Transaction is an **Original** transaction; Unique id number for this transaction; transaction creation date; transaction reports consumption
N1*SJ*ESCO NAME*1*006983564!	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006977763!	Utility Name and DUNS number
N1*8R*CUSTOMER NAME!	Customer Name
REF*12*728100100020006!	Utility customer account number
PTD*BO***OZ*EL!	PTD loop; "BO" indicates summarized meter information for a metered account; service is electric
REF*NH*1150100!	Utility rate class
QTY*FL*2!	Number of service points associated with the reported consumption
MEA*AN*PRQ*174*KH***51!	Measurement data; 'AN' indicates actual consumption; reported consumption is 174 kWh; "51" equals total consumption for period
DTM*150*20060501!	Consumption period start date
DTM*151*20060701!	Consumption period end date
SE*13*000000001!	Transaction Set trailer; segment count; control number

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Scenario 6 – Interim Bill Notice

ST*867*000000001!	Transaction Set header; transaction defined is an ***867***; control number assigned by originator
BPT*00*2006042430326001*20060424!	Transaction is an ***Original*** transaction; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*006985709!	ESCO Name and DUNS number
N1*8S*KEYSPAN DELIVERY*1*848068529!	Utility Name and DUNS number
N1*8R*HARRY SMITH!	Customer Name
REF*12*3062409200!	Utility customer account number
PTD*BK***OZ*GAS!	Indicates ***Interim bill*** will be issued by Utility; service is gas
SE*8*000000001!	Transaction Set trailer; segment count; control number

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Scenario 7 – Monthly Usage and Details of Recorded Usage
Single Retailer Model

ST*867*000000001!	Transaction Set header; transaction defined is an ***867***; control number assigned by originator
BPT*00*67R200600827364*20060717*DD!	Transaction is an ***Original*** transaction; Unique id number for this transaction; transaction creation date; transaction reports consumption
N1*SJ*ESCO NAME*1*006841283!	ESCO Name and DUNS number
N1*8S*NFG*1*006976666!	Utility Name and DUNS number
N1*8R*CUSTOMER NAME!	Customer Name
REF*12*377504508!	Utility customer account number
PTD*PM***OZ*GAS!	PTD loop; "PM" indicates meter reading data for a metered account; service is gas
REF*MG*391084001!	Meter Number
REF*IX*4.0!	Number of Dials
REF*NH*50!	Utility rate class
QTY*FL*1!	Number of service points associated with the reported usage
MEA*AA*PRQ*100*HH*3104*3204!	Measurement data; 'AA' indicates both reads are actual; reported consumption is 100 ccf
MEA**B1*400*HH!	Metered Base Load
MEA**MU*1!	Meter Multiplier
MEA**TPF*.209!	Degree Day Factor
DTM*150*20060615!	Usage period start date
DTM*151*20060715!	Usage period end date
SE*18*000000001!	Transaction Set trailer; segment count; control number

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Scenario 8 – Calendar Month Estimate
Utility Rate Ready, Single Retailer or Dual Billing

ST*867*000000001!	Transaction Set header; transaction defined is an ***867***; control number assigned by originator
BPT*00*67R200600827448*20060903*DD***IN!	Transaction is an ***Original*** transaction; Unique id number for this transaction; transaction creation date; transaction reports consumption; transaction is Calendar Month Estimate
N1*SJ*ESCO NAME*1*006841283!	ESCO Name and DUNS number
N1*8S*NFG*1*006976666!	Utility Name and DUNS number
N1*8R*CUSTOMER NAME!	Customer Name
REF*12*377504508!	Utility customer account number
PTD*PM***OZ*GAS!	PTD loop; "PM" indicates meter reading data for a metered account; service is gas
REF*MG*391084001!	Meter Number
REF*IX*4.0!	Number of Dials
REF*NH*50!	Utility rate class
QTY*FL*1!	Number of service points associated with the reported usage
MEA*EE*PRQ*100*HH*3254*3354!	Measurement data; 'EE' indicates both reads are estimated; estimated consumption is 100 ccf
MEA**B1*400*HH!	Metered Base Load
MEA**MU*1!	Meter Multiplier
MEA**TPF*.209!	Degree Day Factor
DTM*150*20060801!	Usage period start date
DTM*151*20060831!	Usage period end date
SE*18*000000001!	Transaction Set trailer; segment count; control number

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