New York Implementation Standard

For

Standard Electronic Transactions

TRANSACTION SET

867

Historic Interval Usage

Ver/Rel 004010

		Summary of Changes
March 31, 2017		**Initial Release**
October 31, 2017		**Version 1.1**
		• Inclusion of changes to address errata since filing of Version 1.0 including re-ordering of segments and corresponding changes to Table of Contents. • Correction to note for REF Reference Identification (Bill Cycle Code) segment regarding conditionality.
April 30, 2018		**Version 1.2**
		• Modifications to enable DER Suppliers (DERS) to receive data through EDI, with customer consent, on a similar basis as ESCOs.

		Notes pertaining to the use of this document
Purpose		• This implementation guide describes the format and content for an 867 transaction containing historic interval usage data by account. This transaction will be sent to the ESCO of record, subsequent to enrollment. • The 867 Historic Interval Usage Transaction is an optional transaction. The initial release reflects the business requirements and systems capabilities of the utility(ies) requesting development of the transaction. To the extent other utilities elect to support the transaction, it is anticipated that other modifications to this transaction may be proposed.
		• Release 1.0 will be supported by Consolidated Edison and Orange & Rockland. References to Utility Maintained EDI Guides are placeholders; for the purpose of this release it should be presumed that these utilities are exercising the option provided in the note. For example, that note "If it is possible to have an interval and non-interval meter on the same account within its service territory, the utility will specify such in its Utility Maintained EDI Guide" should be read as "Con Ed may have interval and non-interval meters on the same account".
		• The will not be a separate Business Process document for this transaction; it will be addressed as a sub-process in the 867HU Business Process document.
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 term DERS is used to describe a Distributed Energy Resource Supplier. The principal parties involved in this Transaction Set 867 implementation guide are: ➢ The end-use customer (Code 8R) ➢ The Utility (LDC) (Code 8S) ➢ The Supplier (ESCO or DERS) (Code SJ).

Implementation Guideline Field Descriptions

Segment:	**REF** Reference Identification
Position:	030
Loop:	LIN Optional
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	Account numbers will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and leading and trailing zeros that are part of the account number must be present.
	Request: Required
	Accept Response: Required
	Reject Response: Required unless account number was not provided on the request.
	REF*12*2931839200

This section shows the X12 Rules for this segment, with the exception of the Usage and Max Use fields, which include NY rules. For Usage, "Optional (Must Use)" means that the segment is Optional for X12, but required for NY. You must also review the gray boxes below for additional NY Rules.

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**
			Code qualifying the Reference Identification	
			12 Billing Account	
			Utility-assigned account number for the customer.	
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	

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 are X12 code descriptions, which often do not relate to retail access functions/descriptions.
In these guides the meaning of codes has been changed to correspond to retail access transactions as needed.

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)

867 Historic Interval 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 guide documents the format and content of the TS867 used to respond to either an 814 Request for Consumption History or a secondary request for history data made coincident with an 814 Enrollment Request.

Each 867 transaction contains history interval usage data for a single account for a single commodity (Electric or Gas). The consumption history may be either historic interval usage data or a gas profile.

Heading:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
4	010	ST	Transaction Set Header	M	1		
5	020	BPT	Beginning Segment for Product Transfer and Resale	M	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 (Utility Account Number)	O	1		
12	120	REF	Reference Identification (Previous Utility Account Number)	O	1		
13	120	REF	Reference Identification (ISO Location Based Marginal Pricing Zones)	O	1		
14	120	REF	Reference Identification (Gas Pool ID)	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 Summary)	O	1		
16	030	REF	Reference Identification (Utility Rate Service Class)	O	1		
17	030	REF	Reference Identification (Rate Sub Class)	O	1		
18	030	REF	Reference Identification (Load Profile)	O	1		
			LOOP ID – QTY			>1	
19	110	QTY	Quantity	O	1		
20	160	MEA	Measurements	O	40		
22	210	DTM	Date/Time Reference (Period Start Date)	O	1		
23	210	DTM	Date/Time Reference (Period End Date)	O	1		

			LOOP ID – PTD			>1
24	010	PTD	Product Transfer and Resale Detail (Unmetered Usage)	O	1	
25	030	REF	Reference Identification (Utility Rate Service Class)	O	1	
26	030	REF	Reference Identification (Rate Sub Class)	O	1	
27	030	REF	Reference Identification (Load Profile)	O	1	
			LOOP ID – QTY			>1
28	110	QTY	Quantity	O	1	
29	160	MEA	Measurements	O	1	
30	210	DTM	Date/Time Reference (Period Start Date)	O	1	
31	210	DTM	Date/Time Reference (Period End Date)	O	1	
			LOOP ID – PTD			>1
32	010	PTD	Product Transfer and Resale Detail (Metered Consumption Detail)	O	1	
33	030	REF	Reference Identification (Meter Number)	O	1	
34	030	REF	Reference Identification (Utility Rate Service Class)	O	1	
35	030	REF	Reference Identification (Rate Sub Class)	O	1	
36	030	REF	Reference Identification (Load Profile)	O	1	
			LOOP ID – QTY			>1
37	110	QTY	Quantity	O	1	
38	160	MEA	Measurements	O	40	
40	210	DTM	Date/Time Reference (Period Start Date)	O	1	
41	210	DTM	Date/Time Reference (Period End Date)	O	1	
			LOOP ID – PTD			1
42	010	PTD	Product Transfer and Resale Detail (Additional Information)	O	1	
43	030	REF	Reference Identification (Customer Supply Status)	O	1	
44	030	REF	Reference Identification (Industrial Classification Code)	O	1	
45	030	REF	Reference Identification (Utility Tax Exempt Status)	O	1	
46	030	REF	Reference Identification (Account Settlement Indicator)	O	1	
47	030	REF	Reference Identification (NYPA Discount Indicator)	O	1	
48	030	REF	Reference Identification (Utility Discount Indicator)	O	1	
49	030	REF	Reference Identification (Enrollment Block)	O	1	
50	030	REF	Reference Identification (Bill Cycle Code)	O	1	
			LOOP ID - QTY			>1
51	110	QTY	Quantity (ICAP)	O	1	
52	210	DTM	Date/Time Reference (ICAP Effective Dates)	O	1	
			LOOP ID - QTY			
53	110	QTY	Quantity (Number of Meters)	O	1	
54	030	REF	Reference Identification (Meter Number)	O	1	
			LOOP ID - PTD			>1
55	010	PTD	Product Transfer and Resale Detail (Interval Usage Summary – Account Level)	O	1	
56	020	DTM	Date/Time Reference (Period Start Date)	O	1	
57	020	DTM	Date/Time Reference (Period End Date)	O	1	
58	030	REF	Reference Identification (Utility Rate Service Class)	O	1	
59	030	REF	Reference Identification (Rate Sub Class)	O	1	
60	030	REF	Reference Identification (Interval Reading Period)	O	1	
			LOOP ID – QTY			>1
61	110	QTY	Quantity (Interval Quantity – Account Level)	O	1	
62	210	DTM	Date/Time Reference (Report Period)	O	1	

			LOOP ID – PTD			>1	
63	010	PTD	Product Transfer and Resale Detail (Interval Meter Detail)	O	1		
64	020	DTM	Date/Time Reference (Period Start Date)	O	1		
65	020	DTM	Date/Time Reference (Period End Date)	O	1		
66	030	REF	Reference Identification (Meter Number)	O	1		
67	030	REF	Reference Identification (Utility Rate Service Class)	O	1		
68	030	REF	Reference Identification (Rate Sub Class)	O	1		
69	030	REF	Reference Identification (Interval Reading Period)	O	1		
			LOOP ID – QTY			>1	
70	110	QTY	Quantity (Interval Quantity – Meter Level)	O	1		
71	210	DTM	Date/Time Reference (Report Period)	O	1		

Summary:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
72	030	SE	Transaction Set Trailer	M	1		
E-1			Examples				

Transaction Set Notes:

1. The N1 loop is used to identify the transaction participants.
2. The PTD*BO and/or the PTD*BC and/or the PTD*BQ loops are sent in response to requests for historic usage. A PTD*BG loop may be sent with historic usage to provide gas profile factors.
3. The PTD*BG and the PTD*SM loops are sent by utilities in response to requests for gas profile data.

Segment:	**ST** Transaction Set Header	
Position:	010	
Loop:		
Level:	Heading	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To indicate the start of a transaction set and to assign a control number	
Syntax Notes:		
Semantic Notes:	1	The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:		
Notes:	Required	
	ST~867~0001	

Data Element Summary

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

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~52~2001062730326001~20010627~DD	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**BPT01**	**353**	**Transaction Set Purpose Code**	**M**	**ID 2/2**
		52	Response to Historical Inquiry		
			Response to a request for consumption history or gas profile.		
Must Use	**BPT02**	**127**	**Reference Identification**	**O**	**AN 1/30**
Mand.	**BPT03**	**373**	**Date**	**M**	**DT 8/8**
			This is the date that the transaction was created by the sender's application system.		
Must Use	**BPT04**	**755**	**Report Type Code**	**O**	**ID 2/2**
		C1	Cost Data Summary		
			Indicates transaction is an Interval Data transaction.		
		DR	Datalog Report		
			Indicates transaction contains some combination of Interval, Monthly, and/or Unmetered Data.		

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~~24~163456789			

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

Segment:	**N1** Name (Utility)	
Position:	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~~1~006994708	

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**

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

The customer's current tax district must be sent in the N4 segment in this N1 loop. When an N4 segment is required, an N1 segment must also be sent to comply with X12 requirements.
N1~8R~MARY SMITH
N1~8R~NAME

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
		8R	Consumer Service Provider (CSP) Customer		
			Identify the end use customer targeted by this transaction.		
Must Use	**N102**	**93**	**Name**	**X**	**AN 1/60**

Supplemental text information that may be supplied to provide "eyeball" identification of the customer. It is not necessary for successful completion of the transaction but may be provided by mutual agreement between trading partners.

Some utilities may not transmit the actual customer name but will send the literal 'NAME' in N102 position to ensure compliance with ANSI X12 requirements.

	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

Segment:	**N4** Geographic Location (Service Address)		
Position:	110		
Loop:	N1	Optional (Must Use)	
Level:	Heading		
Usage:	Optional (Must Use)		
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:	Optional:	City Name (N101), State (N102), and postal code (N103).	
	Required:	The N405 qualifier (TX) and N406 (Tax District) are required.	

N4~FLUSHING~NY~11355-2426~~TX~8005

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
N401	19	City Name	O	AN 2/30
N402	156	State or Province Code	O	ID 2/2
N403	116	Postal Code	O	ID 3/15
N405	309	Location Qualifier	X	ID 1/2
		TX Taxing District		
N406	310	Location Identifier	O	AN 1/30

State assigned civil division code for the tax district where the customer service is located.

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	

Data Element Summary

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

Segment:	**REF** Reference Identification (Previous Utility 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:	Conditional	

Where a utility changes an existing customer's account number as a business process (and as noted in its Utility Maintained EDI Guide), this segment is required 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 contains 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 a customer.		

Segment:	**REF** Reference Identification (ISO Location Based Marginal Pricing Zones)	
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:	Conditional	

Optional - where supported by a utility for Electric accounts as detailed in its Utility Maintained EDI Guide. May be used if available in the utility's system and if utility's service territory is located within more than one Location Based Pricing Zone in New York.

REF~SPL~A

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

SPL   Standard Point Location Code (SPLC)

REF02 contains the ISO Assigned code for New York Location Based Pricing Zones when service type is EL.

	Ref. Des.	Data Element	Name	Attributes
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

A code assigned by the ISO that represents a location based marginal pricing zone. Valid Values for REF02:

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

Segment:	**REF** Reference Identification (Gas Pool ID)	
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:	Conditional	

Optional - where supported by a utility for Gas accounts as detailed in its Utility Maintained EDI Guide. If requested by an ESCO not currently supplying the customer, the utility may send a gas supply area designation. If requested by an ESCO currently supplying the customer, the utility may send the Gas Pool ID to which the customer is assigned or a gas supply area designation.

REF~VI~211234567
REF~VI~TGP ZONE

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

VI   Pool Number

Gas Pool IDs are assigned to a gas marketer by the Utility and are used to define a unique sub-grouping of customers.

	Ref. Des.	Data Element	Name	Attributes
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

Gas Pool ID or supply area associated with the customer.

Segment:	**PTD** **Product Transfer and Resale Detail (Metered Summary)**	
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	

Three PTD Loops with codes of BO, BC, or BQ have been provided for transmitting historic usage. Two PTD loops with codes of BG and SM are provided for transmitting gas profile data. The sender must use the correct PTD loop for the type of data being transmitted. For example, do not use PTD~BQ to send unmetered usage information. Data on unmetered service points should be summarized in the PTD~BC loop.

The PTD~BO loop is for summarized metered consumption. An account with 12 months of consumption history reported for two metered service end points would be transmitted in one PTD loop but that loop would contain multiple QTY segments - one for each period reported with separate consumption for each unit of measure and daily reported peaks as applicable (see examples).

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 then others, the data from those service end points should be sent in a separate PTD~BO loop.
PTD~BO~~~OZ~EL

Data Element Summary

Mand.	Ref. Des.	Data Element	Name		Attributes
Mand.	**PTD01**	**521**	**Product Transfer Type Code**	**M**	**ID 2/2**
			BO Designated Items		
			Metered Summary		
			This loop contains a summary of the usage data from metered service points on an 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 Service		
			GAS Gas Service		

Segment:	**REF** Reference Identification (Utility Rate Service Class)	
Position:	030	
Loop:	PTD	Optional (Dependent)
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	

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 the service delivery point(s) summarized in this PTD loop.

	Ref. Des.	Data Element	Name	Attributes	
Must Use	REF02	127	Reference Identification	X	AN 1/30

Utility Rate code as found in the tariff. (This code can be used to retrieve rates from a utility's web site.)

Segment:	**REF** Reference Identification (Rate Sub Class)
Position:	030
Loop:	PTD Optional (Dependent)
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	Conditional
	This segment must be sent if a rate subclass is applicable to the service delivery points summarized in this PTD loop.
	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		
Must Use	REF02	127	**Reference Identification**	X	AN 1/30
			Provides further clarification of the Utility Rate Service Class specified in the REF~NH segment.		

Segment:	**REF** Reference Identification (Load Profile)	
Position:	030	
Loop:	PTD	Optional (Dependent)
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To specify identifying information	
Syntax Notes:	**1**	At least one of REF02 or REF03 is required.
	2	If either C04003 or C04004 is present, then the other is required.
	3	If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1**	REF04 contains data relating to the value cited in REF02.
Comments:		
Notes:	Conditional	
	Load Profile codes must be sent when the service is electric (PTD05=EL).	
	REF~LO~L01	

Data Element Summary

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

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 provided by the meter.	
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~2 Data is summarized for 2 meters	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	QTY01	673	Quantity Qualifier	M ID 2/2
			FL Units	
			QTY02 contains the number of metered service delivery points represented by the summarized data in this PTD loop.	
Must Use	QTY02	380	Quantity	X R 1/15
			Report the number of meters represented in the summarized data for the period indicated in the DTM segment.	

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:
Required
An MEA segment must be sent for each unit of measure and time interval where time intervals are applicable.

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 recorded off peak demand
MEA~AN~PRQ~7.3~K1~~~42	7.3 kW recorded on peak demand
MEA~AN~PRQ~3~K1~~~43	3 kW recorded shoulder peak demand
MEA~BR~PRQ~750~KH~~~41	750 kWh billed off peak kilowatt hours
MEA~EN~PRQ~1275~TD	1275 Estimated Therms
MEA~CQ~PRQ~358~TD	358 Calculated Quantity in Therms

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 where the utility tariff provides for minimum charges regardless of actual consumption below the minimum and the Utility does not retain the actual consumption data.	
			CQ	Payment Orders	
				Calculated Quantity	
			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 for the period indicated in the DTM segment.	
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

Cond   **MEA07**   **935**   **Measurement Significance Code**   **O**   **ID 2/2**

This element is required for electric service but not used for gas service.

Code	Description
41	Off Peak
	At the utility's option, this code is used to designate Small Time of Use Off Peak Energy.
42	On Peak
	At the utility's option, this code is used to designate Small Time of Use On Peak Energy.
43	Intermediate
45	Per Gallon
	Summer On Peak
49	Mist
	Winter On Peak
50	Predominant
	Winter Mid Peak
51	Total
	At the utility's option, 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
	High Tension Primary Demand
94	Potential
	High Tension Transmission Demand

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~150~20010315	

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.		

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~151~20010415	

Data Element Summary

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

Segment:	**PTD** Product Transfer and Resale Detail (Unmetered Usage)
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 sent to report unmetered usage history data.

All unmetered consumption history data associated with the service delivery points on an account that have the same rate service class, rate subclass and load profile can be reported in a single PTD loop. It may be necessary to send multiple PTD loops where an account has multiple unmetered service delivery points but some delivery points are associated with a different rate service class or subclass (see examples). Separate QTY loops are used to report the usage data for each period.
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 Service	
			GAS	Gas Service	

Segment:	**REF** Reference Identification (Utility Rate Service Class)
Position:	030
Loop:	PTD Optional (Dependent)
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.)		

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

This segment must be sent if a rate subclass is applicable to the service delivery points summarized in this PTD loop.
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	
Must Use	REF02	127	Quantity	X AN 1/30

Provides further clarification of the Utility Rate Service Class specified in the REF~NH segment.

	Segment:	**REF** Reference Identification (Load Profile)
	Position:	030
	Loop:	PTD Optional (Dependent)
	Level:	Detail
	Usage:	Optional (Dependent)
	Max Use:	1
	Purpose:	To specify identifying information
	Syntax Notes:	**1** At least one of REF02 or REF03 is required.
		2 If either C04003 or C04004 is present, then the other is required.
		3 If either C04005 or C04006 is present, then the other is required.
	Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.
	Comments:	
	Notes:	Conditional
		Load profile codes must be sent when the service is electric (PTD05=EL).
		REF~LO~L01

Data Element Summary

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

	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 period reported.
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 must be sent to indicate the number of unmetered service end points associated with the unmetered usage data sent in this PTD loop.
> QTY~FL~44   Reported consumption is summarized from 44 unmetered points

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	QTY01	673	Quantity Qualifier		M ID 2/2
			FL	Units	
Must Use	QTY02	380	Quantity		X R 1/15
			Contains the number of unmetered points represented by the usage data reported for the period indicated in the DTM segment.		

Segment:	# MEA Measurements			
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			
	MEA~BR~PRQ~10101~KH Billed consumption is 10,101 kilowatt hours			

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 where the utility tariff provides for minimum charges regardless of actual consumption below the minimum and the Utility does not retain the actual consumption data.
			CQ	Payment Orders
				Calculated Quantity
			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 Consumption delivered for 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

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~150~20000315	

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.		

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~151~20000415	

Data Element Summary

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

Segment:	**PTD** Product Transfer and Resale Detail (Metered Consumption Detail)	
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 required when metered consumption history is being reported by meter. The PTD~BQ loop is not required when consumption is reported on an account basis or when a gas profile is provided.

Usage from each metered service point is sent in a separate PTD~BQ loop with each period reported in separate QTY loops within that PTD loop. An account with 12 months of non-interval usage history for two metered delivery points would require 2 PTD~BQ loops with 12 QTY loops within each PTD loop. Each PTD loop must include the meter number, Utility rate service class (and subclass if applicable), and a load profile code where applicable. Consumption must be reported for each unit of measure (kW, kWh, ccf, etc.), and time interval (peak, off peak, etc.) where applicable, for each measurement period. For example, an electric account with a single metered service delivery point where consumption is being measured for on-peak, off-peak and intermediate peak periods would require a single PTD loop but 36 QTY loops to report consumption for a 12 month period (see examples).
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 Service		
			GAS	Gas Service		

Segment:	**REF** Reference Identification (Meter Number)		
Position:	030		
Loop:	PTD	Optional (Dependent)	
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**	M ID 2/3
			MG Meter Number	
Must Use	REF02	127	**Reference Identification**	X AN 1/30
			Utility assigned meter number	

Segment:	**REF** Reference Identification (Utility Rate Service Class)		
Position:	030		
Loop:	PTD	Optional (Dependent)	
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		

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.)	

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

Notes:
Conditional

This segment must be sent if a rate subclass is applicable to the service delivery points summarized in this PTD loop.
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		
Must Use	REF02	127	**Quantity**	X	AN 1/30
			Provides further clarification of the Utility Rate Service Class specified in the REF~NH segment.		

Segment:	**REF** Reference Identification (Load Profile)	
Position:	030	
Loop:	PTD	Optional (Dependent)
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	1	
Purpose:	To specify identifying information	
Syntax Notes:	1	At least one of REF02 or REF03 is required.
	2	If either C04003 or C04004 is present, then the other is required.
	3	If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.
Comments:		
Notes:	Conditional	
	Load profile codes must be sent when the service is electric (PTD05=EL).	
	REF~LO~L01	

Data Element Summary

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

Segment:	**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 provided by the meter.		
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 Data is associated with 1 service delivery point.		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	QTY01	673	Quantity Qualifier	M ID 2/2
			FL Units	
Must Use	QTY02	380	Quantity	X R 1/15
			Valid value for this element in this segment will always be 1.	

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:
Required
An MEA segment must be sent for each unit of measure and time interval where time intervals are applicable.

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 recorded off peak demand
MEA~AN~PRQ~7.3~K1~~~42	7.3 kW recorded on peak demand
MEA~AN~PRQ~3~K1~~~43	3 kW recorded shoulder peak demand
MEA~BR~PRQ~750~KH~~~41	750 kWh billed off peak kilowatt hours
MEA~EN~PRQ~1275~TD	1275 Estimated Therms
MEA~CQ~PRQ~358~TD	358 Calculated Quantity in Therms

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 where the utility tariff provides for minimum charges regardless of actual consumption below the minimum and the Utility does not retain the actual consumption data.	
			CQ	Payment Orders	
				Calculated Quantity	
			EN	Environmental Conditions	
				Period Estimated	
Must Use	MEA02	738	**Quantity**	O	ID 1/3
			PRQ	Product Reportable Quantity	
				Consumption	
Must Use	MEA03	739	**Measurement Value**	X	R 1/20
			Quantity of the consumption for the period indicated in the DTM segment.		
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**

This element is required for electric service but not used for gas service.

41	Off Peak
	At the utility's option, this code will be used to designate Small Time of Use Off Peak Energy.
42	On Peak
	At the utility's option, 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
	At the utility's option, 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
	High Tension Primary Demand
94	Potential
	High Tension Transmission Demand

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~150~20000315	

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.		

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~151~20000415	

Data Element Summary

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

	Segment:	**PTD** Product Transfer and Resale Detail (Additional Information)
	Position:	010
	Loop:	PTD Optional (Must Use)
	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:	Required

Data in the PTD~FG loop will be sent, even in cases where there is no historic usage, however; no data will be sent if there is a customer block in place (A Comprehensive Block or in the case of utilities that employ dual blocks, if a Historic Usage Block is in place). The data provided is based upon what is available on the date the 867HU is provided.

PTD~FG~~~OZ~GAS

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	**PTD01**	**521**	**Product Transfer Type Code**		**M**	**ID 2/2**
			FG			
				Additional Information		
Must Use	**PTD04**	**128**	**Reference Identification Qualifier**		**X**	**ID 2/3**
			OZ	Product Number		
Must Use	**PTD05**	**127**	**Reference Identification**		**X**	**AN 1/30**
			EL			
			GAS			

Segment:	**REF** Reference Identification (Customer Supply Status)	
Position:	030	
Loop:	PTD	Optional (Dependent)
Level:	Detail	
Usage:	Must Use	
Max Use:	20	
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~0N~E	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			0N	Attached To	
			Customer Supply Status		
Must Use	REF02	127	**Reference Identification**	X	AN 1/30
			E	Customer is receiving supply from an ESCO at the time the transaction is created.	
			U	Customer is receiving supply from the Utility at the time the transaction is created.	

Segment:	**REF** Reference Identification (Industrial Classification Code)		
Position:	030		
Loop:	PTD	Optional (Dependent)	
Level:	Detail		
Usage:	Optional (Dependent)		
Max Use:	20		
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		

Required if available in the utility's system
REF~IJ~123456~NAICS
REF~IJ~1234~SIC

Data Element Summary

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

Segment:	**REF** Reference Identification (Utility Tax Exempt Status)		
Position:	030		
Loop:	PTD	Optional (Dependent)	
Level:	Detail		
Usage:	Optional (Dependent)		
Max Use:	20		
Purpose:	To specify identifying information		
Syntax Notes:	**1**	At least one of REF02 or REF03 is required.	
	2	If either C04003 or C04004 is present, then the other is required.	
	3	If either C04005 or C04006 is present, then the other is required.	
Semantic Notes:	**1**	REF04 contains data relating to the value cited in REF02.	
Comments:			
Notes:	Required		

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

Data Element Summary

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

Segment:	**REF** Reference Identification (Account Settlement Indicator)		
Position:	030		
Loop:	PTD	Optional (Dependent)	
Level:	Detail		
Usage:	Optional (Dependent)		
Max Use:	20		
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
Required for Electric only
This indicator reflects how the usage is settled with NYISO, not necessarily how the usage is metered.
REF~TDT~H

Data Element Summary

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

Segment:	**REF** Reference Identification (NYPA Discount Indicator)	
Position:	030	
Loop:	PTD	Optional (Dependent)
Level:	Detail	
Usage:	Optional (Dependent)	
Max Use:	20	
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	

Required for Electric accounts, if available in the utility's system.
REF~YP~N

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
		YP	Selling Arrangement NYPA Discount Indicator. The customer receives any special incentives from the New York Power Authority.		
Must Use	REF02	127	**Reference Identification**	X	AN 1/30
		N	No, the customer does not participate in NYPA Discount Indicator		
		Y	Yes, the customer participates in NYPA/Discount Indicator		

Segment:	**REF** Reference Identification (Utility Discount Indicator)
Position:	030
Loop:	PTD Optional (Dependent)
Level:	Detail
Usage:	Optional (Must Use)
Max Use:	20
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

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

REF~SG~Y

Data Element Summary

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

Segment:	**REF** Reference Identification (Enrollment Block)	
Position:	030	
Loop:	PTD Mandatory	
Level:	Detail	
Usage:	Optional	
Max Use:	20	
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	
	Segment will be sent when customer has an enrollment block on an account.	
	REF~ZV~EB	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			ZV Block	
			Enrollment Block	
Must Use	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			EB Enrollment Block	

Segment:	**REF** Reference Identification (Bill Cycle Code)	
Position:	030	
Loop:	PTD Mandatory	
Level:	Detail	
Usage:	Optional	
Max Use:	20	
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	

Provided if not available from a utility web site on a pre-enrollment basis or at utility's option (as noted in its Utility Maintained EDI Guide).

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

Data Element Summary

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

Segment:	**QTY** Quantity (ICAP)
Position:	110
Loop:	QTY Optional (Dependent)
Level:	Detail
Usage:	Optional (Dependent)
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 for Electric accounts, if available. Multiple QTY~KZ loops may be provided when future ICAP Tags have been calculated.

QTY~KZ~.9278291~K1
DTM~007~~~~RD8~20140501-20150430
QTY~KZ~5.9999999~K1
DTM~007~~~~RD8~20150501-20160430

QTY~KZ~. 8314101249~AJ
DTM~007~~~~RD8~20150501-20160430

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Mand.	QTY01	673	**Quantity Qualifier**		M	ID 2/2
			KZ	Corrective Action Requests-Written		
				ICAP Tag		
Must Use	QTY02	380	**Quantity**		X	R 1/15
			ICAP Tag			
	QTY03	C001	**Composite Unit of Measure**		O	
Mand.	C00101	355	**Unit or Basis for Measurement Code**		M	ID 2/2
			K1	Kilowatt Demand		
				There is no Special Program Adjustment Indicator related to the ICAP Tag.		
			AJ	Adjusted Kilowatt Demand		
				The customer participates in NYPA/ReCharge New York or another Special Program which is covering some portion of this account's ICAP Tag. This unit of measure indicates that the QTY02 represents the remaining ICAP Tag obligation left over after the Special Program's adjustment has been applied.		

Segment:	**DTM** Date/Time Reference (ICAP Effective Dates)	
Position:	210	
Loop:	QTY	Optional
Level:	Detail	
Usage:	Optional	
Max Use:	>1	
Purpose:	To specify pertinent dates and times	
Syntax Notes:	1	At least one of DTM02 DTM03 or DTM05 is required.
	2	If DTM04 is present, then DTM03 is required.
	3	If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:		
Comments:		
Notes:	Conditional	
	Required if ICAP Tag (QTY~KZ) is sent.	
	QTY~KZ~476~K1	
	DTM~007~~~~RD8~20140601-20150531	

Data Element Summary

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

Segment:	**QTY** Quantity (Number of Meters)	
Position:	110	
Loop:	QTY	Optional (Dependent)
Level:	Detail	
Usage:	Optional (Dependent)	
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 - One QTY loop will be provided to indicate the Number of Meters on the account along with each individual Meter Number in subsequent REF segments. If the account has only unmetered services, the QTY02 would be 0.

The QTY~9N is not required when consumption is reported on an account basis or when a gas profile is provided.

For example:
QTY~9N~3
  REF~MG~13259131
  REF~MG~59381932
  REF~MG~10393823
  REF~MG~UNMETERED

QTY~9N~0
  REF~MG~UNMETERED

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**QTY01**	**673**	**Quantity Qualifier**		**M ID 2/2**
			9N	Component Meter Reading Count	
			Number of Meters on the Account		
Must Use	**QTY02**	**380**	**Quantity**		**X R 1/15**
			Number of Meters on the Account		

Segment:	**REF** Reference Identification (Meter Number)		
Position:	190		
Loop:	QTY	Optional (Dependent)	
Level:	Detail		
Usage:	Optional (Dependent)		
Max Use:	>1		
Purpose:	To specify identifying information		
Syntax Notes:	1	At least one of REF02 or REF03 is required.	
	2	If either C04003 or C04004 is present, then the other is required.	
	3	If either C04005 or C04006 is present, then the other is required.	
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.	
Comments:			
Notes:	Required - One REF segment will be sent for each Meter Number on the account and/or one REF segment would be sent if there are unmetered services on the account.		

The REF~MG is not required when consumption is reported on an account basis or when a gas profile is provided.

For example:
QTY~9N~3
  REF~MG~13259131
  REF~MG~59381932
  REF~MG~10393823
  REF~MG~UNMETERED

QTY~9N~0
  REF~MG~UNMETERED

Data Element Summary

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

Segment:	**PTD**	Product Transfer and Resale Detail (Interval Usage Summary – Account Level)	
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		

Provided when interval consumption is being requested at the account level.
IA (Account Summary) Loop –sums intervals at the account level by unit of measure.

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=IA.

PTD~IA~~OZ~EL

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**PTD01**	**521**	**Product Transfer Type Code**	**M**	**ID 2/2**
			IA	Inventory Adjustment	
				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	

Segment:	**DTM** Date/Time Reference (Period Start Date)	
Position:	020	
Loop:	PTD	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.		

Segment:	**DTM** Date/Time Reference (Period End Date)		
Position:	020		
Loop:	PTD	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	M	ID 3/3
			151 Service Period End		
Must Use	DTM02	373	Date	X	DT 8/8
			End date of the period reported in the current QTY loop in the form CCYYMMDD.		

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	

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.)	

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.	

	Segment:	**REF** Reference Identification (Interval Reading Period)
	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~MT~KH015 (to indicate 15 minute intervals)
REF~MT~KH030 (to indicate 30 minute intervals)
REF~MT~HH060 (to indicate 60 minutes intervals, e.g. for an hourly gas interval)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	REF01	128	**Reference Identification Qualifier**	M ID 2/3
			MT Meter Ticket Number	
			Interval Reading Period.	
Must Use	REF02	127	**Reference Identification**	X AN 1/30

Provides clarification of interval meter data reading period REF01 where REF01=MT.

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

The REF02 in this segment should contain one of the following codes as the first two characters to describe the type of consumption:

KH Kilowatt Hour (kWh)
HH Hundred Cubic Feet (CCF)

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

BIM Bi-Monthly
DAY Daily
MON Monthly
QTR Quarterly

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

For example:

KHMON	Kilowatt Hours Per Month
KH015	Kilowatt Hours Per 15 minute Interval
KH030	Kilowatt Hours Per 30 minute Interval
HHDAY	Hundred Cubic Feet (CCF) per Daily Interval

Segment:	**QTY** Quantity (Interval Quantity - Account Level)	
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	

Notes:

Required

If specified in its Utility Maintained EDI Guide, the utility will provide estimated interval usage, if possible. Otherwise, the bill will be estimated and these will be coded as missing reads.

QTY~QD~1012~KH
QTY~KA~710~KH
QTY~QD~10~HH
QTY~QD~.5~KH
QTY~20~0~KH

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**QTY01**	**673**	**Quantity Qualifier**	**M**	**ID 2/2**
			QD Work		
			Period Actual		
			KA Environmental Conditions		
			Period Estimated		
			20 Missing Read		
Must Use	**QTY02**	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity.		
M	**QTY03**	**355**	**Unit or Basis for Measurement Code**	**M**	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			KH Kilowatt Hour		
			kWh - Kilowatt Hours		
			HH Hundred Cubic Feet		
			CCF		

Segment:	**DTM** Date/Time Reference (Report Period)			
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~582~20170104~1500~ES

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand.	**DTM01**	**374**	**Date/Time Qualifier**		**M ID 3/3**
			582	Report Period	
			The date/time of the end of the interval.		
Must Use	**DTM02**	**373**	**Date**		**X DT 8/8**
			Report Period		
			Date expressed as CCYYMMDD		
Must Use	**DTM03**	**337**	**Time**		**X TM 4/8**
			Time expressed in 24-hour clock time as follows: HHMM		
			HHMM format		
Must Use	**DTM04**	**623**	**Time Code**		**O ID 2/2**

Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or – and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and – are substituted by P and M in the codes that follow.

The time code must accurately provide the time zone when the daylight savings time starts and ends if the meter is adjusted for daylight savings time. If meter is not adjusted for daylight savings time, the time code will always reflect Eastern Daylight Time which will be interpreted as prevailing time.

ED	Eastern Daylight Time	
ES	Eastern Standard Time	

Segment:	**PTD** Product Transfer and Resale Detail (Interval Meter 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		

Provided when consumption is being requested by meter.
PM (Interval Meter Detail) Loop – intervals detail by meter.

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

If it is possible to have an interval and non-interval meter on the same account within its service territory, the utility will specify such in its Utility Maintained EDI Guide.

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	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		

Segment:	**DTM** Date/Time Reference (Period Start Date)
Position:	020
Loop:	PTD 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.	

Segment:	**DTM** Date/Time Reference (Period End Date)	
Position:	020	
Loop:	PTD	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**	M	ID 3/3
			151 Service Period End		
Must Use	DTM02	373	**Date**	X	DT 8/8
			End date of the period reported in the current QTY loop in the form CCYYMMDD.		

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**	M	ID 2/3
			MG Meter Number		
Must Use	REF02	127	**Reference Identification**	X	AN 1/30
			Utility assigned meter number		

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	

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.)	

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.	

Segment:	**REF** Reference Identification (Interval Reading Period)	
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~MT~KH015 (to indicate 15 minute intervals)
REF~MT~HH060 (to indicate 60 minute intervals, e.g. for an hourly gas interval)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand.	REF01	128	**Reference Identification Qualifier**	M ID 2/3
			MT Meter Ticket Number	
			Interval Reading Period.	
Must Use	REF02	127	**Reference Identification**	X AN 1/30

Provides clarification of interval meter data reading period REF01 where REF01=MT.

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

The REF02 in this segment should contain one of the following codes as the first two characters to describe the type of consumption:

KH Kilowatt Hour (kWh)
HH Hundred Cubic Feet (CCF)

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

BIM Bi-Monthly
DAY Daily
MON Monthly
QTR Quarterly

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

For example:

KHMON	Kilowatt Hours Per Month
KH015	Kilowatt Hours Per 15 minutes Interval
HHDAY	Hundred Cubic Feet (CCF) per Daily Interval

Segment:	**QTY** Quantity (Interval Quantity- Meter Level)	
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	

Notes:

Required

If specified in its Utility Maintained EDI Guide, the utility will provide estimated interval usage, if possible. Otherwise, the bill will be estimated and these will be coded as missing reads.

Gas consumption will be provided in CCF at the Interval Level, but Therms in the summary.

QTY~QD~1012~KH
QTY~KA~710~KH
QTY~QD~.5~KH
QTY~20~0~KH

Data Element Summary

Mand.	Ref. Des.	Data Element	Name	Attributes	
Mand.	**QTY01**	**673**	**Quantity Qualifier**	**M**	**ID 2/2**
			QD	Work	
				Period Actual	
			KA	Environmental Conditions	
				Period Estimated	
			20	Missing Read	
Must Use	**QTY02**	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity.		
M	**QTY03**	**355**	**Unit or Basis for Measurement Code**	**M**	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			KH	Kilowatt Hour	
				kWh - Kilowatt Hours	
			HH	Hundred Cubic Feet	
				CCF	

Segment:	**DTM** Date/Time Reference (Report Period)	
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~582~20170104~1500~ES

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand.	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			582 Service Period Start		
			The date/time of the end of the interval		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Start date of the period reported in the current QTY loop in the form CCYYMMDD.		
Must Use	**DTM03**	**337**	**Time**	**X**	**TM 4/8**
			Time expressed in 24-hour clock time as follows: HHMM HHMM format		
Must Use	**DTM04**	**623**	**Time Code**	**O**	**ID 2/2**

Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or – and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and – are substituted by P and M in the codes that follow.

The time code must accurately provide the time zone when the daylight savings time starts and ends if the meter is adjusted for daylight savings time. If meter is not adjusted for daylight savings time, the time code will always reflect Eastern Daylight Time which will be interpreted as prevailing time.

      ED   Eastern Daylight Time
      ES   Eastern Standard Time

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~99~0001	

Data Element Summary

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

EXAMPLES

These examples are presented for illustrative purposes only. Although they are syntactically correct with respect to the published transaction standard for the TS867 Historic Interval 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, ESCO or DERS would map a specific transaction.

Response to Request for Historic Interval Usage - Multi-Meter account

PTD*PM***OZ*EL~	Row 41
DTM*150*20150212~	Row 46
DTM*151*20150316~	
REF*MG*5~	
REF*NH*8~	
REF*PR*LO N 50~	
REF*LO*143.4~	
QTY*QD*45*KH~	
DTM*582*20150213*0015*ED~	
QTY*QD*57*KH~	
DTM*582*20150213*0030*ED~	
QTY*QD*65*KH~	
DTM*582*20150213*0045*ED~	Repeat for bill period (Row 46 to 47)
PTD*PM***OZ*EL~	
DTM*150*20150316~	Row 60
DTM*151*20150414~	
REF*MG*5~	
REF*NH*8~	
REF*PR*LO N 50~	
REF*LO*143.4~	
QTY*QD*35*KH~	
DTM*582*20150316*0015*ED~	
QTY*QD*57*KH~	
DTM*582*20150316*0030*ED~	
QTY*QD*65*KH~	
DTM*582*20150316*0045*ED~	Repeat for bill period (Row 60 to 61)
PTD*PM***OZ*EL~	
DTM*150*20150212~	Row 74
DTM*151*20150316~	

REF*MG*6~	
REF*NH*8~	
REF*PR*LO N 50~	
REF*LO*143.4~	
QTY*QD*43*KH~	
DTM*582*20150213*0015*ED~	
QTY*QD*52*KH~	
DTM*582*20150213*0030*ED~	
QTY*QD*57*KH~	
DTM*582*20150213*0045*ED~	Repeat for bill period (Row 74 to 75)