

New York Implementation Standard

For
**Sandard Electronic
Transactions**

TRANSACTION SET

867

Monthly Interval Usage

Ver/Rel 004010

	Summary of Changes
March 31, 2017	Version 1.0 Initial Release
October 31, 2017	Version 1.1
	<ul style="list-style-type: none">• Inclusion of changes to address errata since filing of Version 1.0 including re-ordering of segments and corresponding changes to Table of Contents.

	Notes pertaining to the use of this document
Purpose	<ul style="list-style-type: none"> • This implementation guide describes the format and content for an 867 transaction containing interval usage data by account. This transaction will be sent to the ESCO of record, subsequent to enrollment. • The 867 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.
	<ul style="list-style-type: none"> • 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”.
	<ul style="list-style-type: none"> • The will not be a separate Business Process document for this transaction; it will be addressed as a sub-process in the 814MU Business Process document.

Implementation Guideline Field Descriptions

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

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

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

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

One or more examples. ~12~011231287654398

Data Element Summary

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

This column documents differences between X12 and NY use for each data element:
 Mand. (Mandatory) – Required by X12
 Must Use – Required by NY
 Cond. (Conditional)
 Optional

These columns show the X12 attributes for each data element:
 M = Mandatory
 O = Optional
 X = Conditional
 AN = Alphanumeric
 N# = Implied Decimal
 ID = Identification
 R = Real
 DT = Date (CCYYMMDD)
 1/30 = Minimum 1, Maximum 30

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

Heading:

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
4	010	ST	Transaction Set Header	M	1		
5	020	BPT	Beginning Segment for Product Transfer and Resale	M	1		
6	050	DTM	Date/Time Reference (Next Meter Read Date)	O	1		
LOOP ID - N1							1
7	080	N1	Name (ESCO)	O	1		
LOOP ID - N1							1
8	080	N1	Name (Utility)	O	1		
LOOP ID - N1							1
9	080	N1	Name (Customer)	O	1		
10	100	N3	Address Information (Service Address)	O	1		
11	110	N4	Geographic Location (Service Address)	O	1		
12	120	REF	Reference Identification (ESCO Customer Account Number)	O	1		
13	120	REF	Reference Identification (Utility Account Number)	O	1		
14	120	REF	Reference Identification (Previous Utility Account Number)	O	1		
15	120	REF	Reference Identification (Bill Option)	O	1		

Detail:

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - PTD							>1
16	010	PTD	Product Transfer and Resale Detail (Metered Consumption Summary)	M	1		
17	030	REF	Reference Identification (Utility Rate Service Class)	O	1		
18	030	REF	Reference Identification (Rate Sub Class)	O	1		
LOOP ID - QTY							>1
19	110	QTY	Quantity (Number of Meters)	O	1		
20	140	AMT	Monetary Amount (Back Out Credit)	O	1		
21	160	MEA	Measurements	O	40		
24	210	DTM	Date/Time Reference (Period Start Date)	O	1		
25	210	DTM	Date/Time Reference (Period End Date)	O	1		

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			LOOP ID - PTD			>1
26	010	PTD	Product Transfer and Resale Detail (Un-metered Consumption)	M	1	
27	030	REF	Reference Identification (Utility Rate Service Class)	O	1	
28	030	REF	Reference Identification (Rate Sub Class)	O	1	
			LOOP ID - QTY			>1
29	110	QTY	Quantity (Number of Meters)	O	1	
30	140	AMT	Monetary Amount (Back Out Credit)	O	1	
31	160	MEA	Measurements	O	40	
32	210	DTM	Date/Time Reference (Period Start Date)	O	1	
33	210	DTM	Date/Time Reference (Period End Date)	O	1	
			LOOP ID - PTD			>1
34	010	PTD	Product Transfer and Resale Detail (Metered Consumption Detail)	M	1	
35	030	REF	Reference Identification (Meter Number)	O	1	
36	030	REF	Reference Identification (Utility Rate Service Class)	O	1	
37	030	REF	Reference Identification (Rate Sub Class)	O	1	
			LOOP ID - QTY			>1
38	110	QTY	Quantity (Number of Meters)	O	1	
39	140	AMT	Monetary Amount (Back Out Credit)	O	1	
40	160	MEA	Measurements	O	40	
43	210	DTM	Date/Time Reference (Period Start Date)	O	1	
44	210	DTM	Date/Time Reference (Period End Date)	O	1	
			LOOP ID - PTD			>1
45	010	PTD	Product Transfer and Resale Detail (Interval Usage Summary – Account Level)	M	1	
46	020	DTM	Date/Time Reference (Period Start Date)	O	1	
47	020	DTM	Date/Time Reference (Period End Date)	O	1	
48	030	REF	Reference Identification (Utility Rate Service Class)	O	1	
49	030	REF	Reference Identification (Rate Sub Class)	O	1	
50	030	REF	Reference Identification (Interval Reading Period)	O	1	
			LOOP ID - QTY			>1
51	110	QTY	Quantity (Interval Quantity - Account Level)	O	1	
52	210	DTM	Date/Time Reference (Report Period)	O	1	
			LOOP ID – PTD			>1
53	010	PTD	Product Transfer and Resale Detail (Interval Meter Detail)	M	1	
54	020	DTM	Date/Time Reference (Period Start Date)	O	1	
55	020	DTM	Date/Time Reference (Period End Date)	O	1	
56	030	REF	Reference Identification (Meter Number)	O	1	
57	030	REF	Reference Identification (Utility Rate Service Class)	O	1	
58	030	REF	Reference Identification (Rate Sub Class)	O	1	
59	030	REF	Reference Identification (Interval Reading Period)	O	1	
			LOOP ID – QTY			>1
60	110	QTY	Quantity (Interval Quantity- Meter Level)	O	1	
61	210	DTM	Date/Time Reference (Report Period)	O	1	

NY867 Monthly Interval Usage

Summary:

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

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

Comments:

Notes:

Required
 ST~867~0000001

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Mand.	ST01	143	Transaction Set Identifier Code 867 Product Transfer and Resale Report	M ID 3/3
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~00~2006042430326001~20060424~DD

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	BPT01	353	Transaction Set Purpose Code 00 Original Conveys original readings for the account being reported. 01 Cancellation Indicates that the readings previously reported for the account are to be ignored.	M ID 2/2
Must Use	BPT02	127	Reference Identification A unique transaction identification number assigned by the originator of this transaction. This number should be unique over time.	O AN 1/30
Mand.	BPT03	373	Date Date Expressed as CCYYMMDD. Transaction Creation Date. This is the date that the transaction was created by the sender's application system.	M DT 8/8
Cond	BPT04	755	Report Type Code Code indicating the title or contents of a document, report or supporting item. 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.	O ID 2/2
Cond	BPT07	306	Action Code F Final Used only when reporting final consumption for an account when the customer account is final with the utility.	O ID 1/2
Cond	BPT09	127	Reference Identification When BPT01 = 01 this element should contain the transaction identification number sent in BPT02 in the transaction that is being cancelled.	O AN 1/30

Segment: **DTM** Date/Time Reference (Next Meter Read Date)
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Optional
 DTM~634~20061203

Data Element Summary

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

Segment: **N1** Name (ESCO)
Position: 080
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.

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

Notes: Required
 N1~SJ~~24~123456789

Data Element Summary

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

Segment: **N1** Name (Utility)
Position: 080
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.
Notes: Required
 N1~8S~~24~012345678

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
Mand.	N101	98 Entity Identifier Code 8S Consumer Service Provider (CSP) Identifies the Utility participating in this transaction.	M ID 2/3
	N102	93 Name 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.	X AN 1/60
Must Use	N103	66 Identification Code Qualifier 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	X ID 1/2
Must Use	N104	67 Identification Code The D-U-N-S number or the Federal Tax ID	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

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

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

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

Data Element Summary

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

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

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
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
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Conditional

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

N4~CITYNAME~ST~12345

Data Element Summary

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

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

REF~11~A12345009Z

Data Element Summary

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

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

Data Element Summary

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

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

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

REF~45~9194132485705971

Data Element Summary

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

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

Optional

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

Data Element Summary

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

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

Position: 010

Loop: PTD Mandatory

Level: Detail

Usage: Mandatory

Max Use: 1

Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data

Syntax Notes: 1 If either PTD02 or PTD03 is present, then the other is required.

2 If either PTD04 or PTD05 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Conditional

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

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

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

PTD~BO~~OZ~GAS

Data Element Summary

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

Segment: **REF** Reference Identification (Utility Rate Service Class)
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
 1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Required
 REF~NH~A001
 REF~NH~1150100

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	REF01	128	Reference Identification Qualifier NH	M ID 2/3 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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	REF01	128	Reference Identification Qualifier PR	M ID 2/3 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: **QTY** Quantity (Number of Meters)

Position: 110

Loop: QTY Optional (Must Use)

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

Purpose: To specify quantity information. A separate Quantity loop is used for each register or measurement type being summarized.

Syntax Notes: 1 At least one of QTY02 or QTY04 is required.

2 Only one of QTY02 or QTY04 may be present.

Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.

Comments:

Notes: Required

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

QTY~FL~2 (indicates 2 Meters)

Data Element Summary

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

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

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

AMT~ZT~-23.29
 AMT~ZT~0.00

Data Element Summary

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

Segment: **MEA** Measurements

Position: 160

Loop: QTY Optional (Must Use)

Level: Detail

Usage: Optional (Must Use)

Max Use: 40

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights.

- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
 - 2 If MEA05 is present, then MEA04 is required.
 - 3 If MEA06 is present, then MEA04 is required.
 - 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
 - 5 Only one of MEA08 or MEA03 may be present.

Semantic Notes: 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments: 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes: Required

Consumption shown with measurement type and daily peak period.

```

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

Data Element Summary

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

Must Use	MEA04	C001	Composite Unit of Measure	X
Mand.	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			HH	Hundred Cubic Feet
				ccf
			K1	Kilowatt Demand
			K2	Kilovolt Amperes Reactive Demand
			K3	Kilovolt Amperes Reactive Hour
			K4	Kilovolt Amperes
			K5	Kilovolt Amperes Reactive
			K7	Kilowatt
			KH	Kilowatt Hour
			TD	Therms
			TZ	Thousand Cubic Feet

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

When PTD05 = GAS, this element is not used.

41	Off Peak
	If specified in its Utility Maintained EDI Guide, the utility will use this code will be used to designate Small Time of Use Off Peak Energy.
42	On Peak
	If specified in its Utility Maintained EDI Guide, the utility will use 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
	If specified in its Utility Maintained EDI Guide, the utility will use 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~150~20060315

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
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~151~20060415

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Mand.	DTM01	374	Date/Time Qualifier 151 Service Period End	M ID 3/3
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 (Un-metered Consumption)**

Position: 010

Loop: PTD Mandatory

Level: Detail

Usage: Mandatory

Max Use: 1

Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data

Syntax Notes: 1 If either PTD02 or PTD03 is present, then the other is required.

2 If either PTD04 or PTD05 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Conditional

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

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

PTD~BC~~~OZ~EL

Data Element Summary

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

Segment: **REF** Reference Identification (Utility Rate Service Class)
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
 1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Required
 REF~NH~A001
 REF~NH~1150100

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	REF01	128	Reference Identification Qualifier NH	M ID 2/3
			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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	REF01	128	Reference Identification Qualifier PR	M ID 2/3 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: **QTY** Quantity (Number of Meters)
Position: 110
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify quantity information.
Syntax Notes: 1 At least one of QTY02 or QTY04 is required.
 2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.
Comments:
Notes:

Required.
 A separate QTY loop is used to indicate the number of un-metered service points summarized in this loop.
 QTY~FL~44 (indicates 44 un-metered points)

Data Element Summary

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

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

Conditional

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

AMT~ZT~-23.29
 AMT~ZT~0.00

Data Element Summary

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

- Segment:** **MEA** Measurements
- Position:** 160
- Loop:** QTY Optional (Must Use)
- Level:** Detail
- Usage:** Optional (Must Use)
- Max Use:** 40
- Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights.
- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
 - 2 If MEA05 is present, then MEA04 is required.
 - 3 If MEA06 is present, then MEA04 is required.
 - 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
 - 5 Only one of MEA08 or MEA03 may be present.
- Semantic Notes:**
- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
- Comments:**
- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
- Notes:**
- Required
- Consumption shown with measurement type.
- MEA~BR~PRQ~10101~KH (indicates 10101 kWh consumption)

Data Element Summary

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

Segment: **DTM** **Date/Time Reference (Period Start Date)**
Position: 210
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Required
 DTM~150~20060315

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Mand.	DTM01	374	Date/Time Qualifier 150 Service Period Start	M ID 3/3
Must Use	DTM02	373	Date Start date of the period reported in the current QTY loop in the form CCYYMMDD.	X DT 8/8

Segment: **DTM** Date/Time Reference (Period End Date)
Position: 210
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes: 1 At least one of DTM02 DTM03 or DTM05 is required.
 2 If DTM04 is present, then DTM03 is required.
 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Required
 DTM~151~20060415

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	DTM01	374	Date/Time Qualifier 151 Service Period End	M ID 3/3
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 Mandatory

Level: Detail

Usage: Mandatory

Max Use: 1

Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data

Syntax Notes: 1 If either PTD02 or PTD03 is present, then the other is required.

2 If either PTD04 or PTD05 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Conditional

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

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

PTD~BQ~~~OZ~EL

Data Element Summary

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

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

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

Segment: **REF** Reference Identification (Utility Rate Service Class)
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Required
 REF~NH~A001
 REF~NH~1150100

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	REF01	128	Reference Identification Qualifier NH	M ID 2/3 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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	REF01	128	Reference Identification Qualifier PR	M ID 2/3 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: **QTY** Quantity (Number of Meters)
Position: 110
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify quantity information.
Syntax Notes:
 1 At least one of QTY02 or QTY04 is required.
 2 Only one of QTY02 or QTY04 may be present.
Semantic Notes:
 1 QTY04 is used when the quantity is non-numeric.
Comments:
Notes:

Required
 QTY~FL~1 = 1 Meter

Data Element Summary

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

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

Conditional

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

AMT~ZT~-23.29
 AMT~ZT~0.00

Data Element Summary

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

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

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

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

Data Element Summary

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

Must Use Mand.	MEA04 C00101	C001 355	Composite Unit of Measure Unit or Basis for Measurement Code	X M ID 2/2
			HH Hundred Cubic Feet	
			ccf	
			K1 Kilowatt Demand	
			K2 Kilovolt Amperes Reactive Demand	
			K3 Kilovolt Amperes Reactive Hour	
			K4 Kilovolt Amperes	
			K5 Kilovolt Amperes Reactive	
			K7 Kilowatt	
			KH Kilowatt Hour	
			TD Therms	
			TZ Thousand Cubic Feet	
Cond.	MEA07	935	Measurement Significance Code	O ID 2/2
			When PTD05 = GAS, this element is not used.	
			41 Off Peak	
			If specified in its Utility Maintained EDI Guide, the utility will use this code will be used to designate Small Time of Use Off Peak Energy.	
			42 On Peak	
			If specified in its Utility Maintained EDI Guide, the utility will use 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	
			If specified in its Utility Maintained EDI Guide, the utility will use 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~150~20060315

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
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~151~20060415

Data Element Summary

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

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

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

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

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	DTM01	374	Date/Time Qualifier 150 Service Period Start	M ID 3/3
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

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Mand.	DTM01	374	Date/Time Qualifier 151 Service Period End	M ID 3/3
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
 REF~NH~A001
 REF~NH~1150100

Data Element Summary

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

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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	REF01	128	Reference Identification Qualifier PR	M ID 2/3 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

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

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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	QTY01	673	Quantity Qualifier	M ID 2/2
			QD Work	
			KA Period Actual	
			20 Environmental Conditions	
			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

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

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

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

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Mand.	DTM01	374	Date/Time Qualifier 150 Service Period Start	M ID 3/3
Must Use	DTM02	373	Date Start date of the period reported in the current QTY loop in the form CCYYMMDD.	X DT 8/8

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

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	DTM01	374	Date/Time Qualifier 151 Service Period End	M ID 3/3
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

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

Segment: **REF** Reference Identification (Utility Rate Service Class)
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
 1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Required
 REF~NH~A001
 REF~NH~1150100

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	REF01	128	Reference Identification Qualifier NH	M ID 2/3 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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	REF01	128	Reference Identification Qualifier PR	M ID 2/3 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

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

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

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

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Mand.</u>	<u>Des.</u>	<u>Element</u>	<u>Quantity Qualifier</u>	
	QTY01	673	QD Work Period Actual	M ID 2/2
			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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	DTM01	374	Date/Time Qualifier 582 Report Period The date/time of the end of the interval	M ID 3/3
Must Use	DTM02	373	Date Report Period Date expressed as CCYYMMDD.	X DT 8/8
Must Use	DTM03	337	Time Time expressed in 24-hour clock time as follows: HHMM HHMM format	X TM 4/8
Must Use	DTM04	623	Time Code 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.	O ID 2/2
			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~15~0001

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
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 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 or ESCO would map a specific transaction.

Example 1 – For multimeter

ST*867*1~	Transaction Set header; transaction defined is an 867; control number assigned by originator
BPT*00*400000000000000161223161222E00*20161224*C 1~	
DTM*634*20170124~	
N1*SJ*ESCO Service, LLC*1*11111111~	
N1*8S*UTILITY*1*000000000~	
N1*8R*CUST NAME~	
N3*1 W 11 ST D~	
N4*NEW YORK*NY*10000~	
REF*12*400000000000000~	
PTD*BO***OZ*EL~	
REF*NH*116~	
REF*PR*LO N 53~	
QTY*FL*2~	
MEA*AN*PRQ*134*KH***51~	
MEA*AN*PRQ*0*K1***51~	
MEA*AN*PRQ*89*KH***41~	
MEA*AN*PRQ*45*KH***42~	
DTM*150*20161121~	
DTM*151*20161222~	
PTD*BQ***OZ*EL~	
REF*MG*88888888~	
REF*NH*116~	
REF*PR*LO N 53~	
QTY*FL*1~	
MEA*AN*PRQ*45*KH***42~	
DTM*150*20161121~	
DTM*151*20161222~	
PTD*BQ***OZ*EL~	
REF*MG*99999999~	
REF*NH*116~	
REF*PR*LO N 53~	
QTY*FL*1~	
MEA*AN*PRQ*89*KH***41~	
DTM*150*20161121~	
DTM*151*20161222~	
PTD*IA***OZ*EL~	Option: Interval summary at the account level, by request via account change or enrollment
DTM*150*20161121~	
DTM*151*20161222~	
REF*NH*116~	
REF*PR*LO N 53~	
REF*MT*KH015~	

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QTY*QD*21.3*KH~ DTM*582*20161121*0015*ES~	Total KH at the account level for the first 15 minutes
QTY*QD*20.22*KH~ DTM*582*20161121*0030*ES~	Total KH at the account level for the next 15 minutes
...	
... Continued until end of period	
QTY*QD*.3*KH~ DTM*582*20161222*2330*ES~	
QTY*QD*20.22*KH~ DTM*582*20161222*2345*ES~	
QTY*QD*.22*KH~ DTM*582*20161223*0000*ES~	Last Interval will be 2345 of the DTM151 to 0000 of the day after the DTM151
PTD*PM***OZ*EL~	Option: Interval meter detail, by request via account change or enrollment – meter 1
DTM*150*20161121~ DTM*151*20161222~	
REF*MG*8888888~ REF*NH*116~ REF*PR*LO N 53~ REF*MT*KH015~	Meter Number
QTY*QD*21.3*KH~ DTM*582*20161121*0015*ES~	
QTY*QD*20.22*KH~ DTM*582*20161121*0030*ES~	
...	
... Continued until end of period	
QTY*QD*.3*KH~ DTM*582*20161222*2330*ES~	
QTY*QD*20.22*KH~ DTM*582*20161222*2345*ES~	
QTY*QD*.22*KH~ DTM*582*20161223*0000*ES~	Last Interval will be 2345 of the DTM151 to 0000 of the day after the DTM151
PTD*PM***OZ*EL~	Option: Interval meter detail, by request via account change or enrollment – meter 2
DTM*150*20161121~ DTM*151*20161222~	
REF*MG*9999999~ REF*NH*116~ REF*PR*LO N 53~ REF*MT*015~	Meter Number
QTY**QD*11*KH~ DTM*582*20161222*0015*ES~	

Example 5a – Daylight Savings Time (Spring Forward)

ST*867*1~	Transaction Set header; transaction defined is an 867; control number assigned by originator

Example 5b – Daylight Savings Time (Fall Back)

ST*867*1~	Transaction Set header; transaction defined is an 867; control number assigned by originator

