Pennsylvania New Jersey Delaware Maryland

# **Implementation Guideline**

For

Electronic Data Interchange

TRANSACTION SET

867

Historical Interval Usage Ver/Rel 004010

# **Table of Contents**

f Changes	4
ia Notes	6
lotes	7
,	
,	
,	
,	
, · · · · · · · · · · · · · · · · · · ·	
,	
Q1 Y Quantity	56
· · · · · · · · · · · · · · · · · · ·	
	ites is a Notes.  Notes of the Implementation Guideline in any for 867 Historical Interval Usage ST Transaction Set Header BPT Beginning Segment for Product Transfer and Resale NI Name (858–LDC Name)  NI Name (85–LDC Name)  NI Name (85–LDC Name)  NI Name (83–LDC Name)  NI Name (87–Esp Name)  NI Name (87–Esp Name)  NI Name (87–Esp Name)  REF Reference Identification (11–ESP Account Number)  REF Reference Identification (12–LDC Account Number)  REF Reference Identification (12–LDC Account Number)  PTD Product Transfer and Resale Detail (8U=Interval Summary-Account)  OTY Quantity  DTM Date/Time Reference (150–Service Period Start)  DTM Date/Time Reference (151–Service Period End)  PTD Product Transfer and Resale Detail (RT–Rate)  REF Reference Identification (NH=LDC Rate Class)  REF Reference Identification (PR=LDC Rate Sub-Class)  OTY Quantity  MEA Measurements  DTM Date/Time Reference (150–Service Period Date)  DTM Date/Time Reference (151–Service Period Start)  DTM Date/Time Reference (150–Service Period Start)  DTM Date/Time Reference (151–Service Period Start)  DTM Date/Time Reference (151–Servic

# March 17, 2014 Version 6.1

	version 6.1
Segment: REF Reference Identification (KY=Special Meter Configuration)	65
Segment: QTY Quantity (KC=Peak Load Contribution)	67
Segment: DTM Date/Time Reference (007=PLC Effective Date)	68
Segment: QTY Quantity (KZ=Network Service Peak Load)	69
Example: Historical Interval Usage by Account	72
Example: Historical Interval Usage by Meter	
Example: Pennsylvania & Maryland Net Metering / Customer Generation	

	Version 6.1
	Summary of Changes
March 15, 2008 Version 0.1D	Initial Release for PSEG NJ Change Control.
August 20, 2008 Version 0.1.5D	Incorporate changes for PA
October 2, 2008 Version 0.1.6D	Remove PECO from PA Notes section
August 8, 2009 Version 0.1.7D	Incorporate PA Change Control 056 (PPL field use)
January 24, 2010 Version 1.0	This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware.
November 4, 2010 Version 1.0.1D	Incorporated PA Change Control 065 (REF*LF and REF*SV) Incorporated PA Change Control 066 (FE HI Implementation) Incorporated PA Change Control 068 (PECO HI Implementation) Incorporated PA Change Control 073 (Update terminology of AMTKC to PLC and AMTKZ to NSPL)
February 28, 2011 Version 2.0	This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware.
Version 2.01	Incorporated PA Change Control 075 (Update UOM codes in QTY03) Incorporated PA Change Control 077 (Add QTY01 Codes) Incorporated PA Change Control 078 (REF*11) Incorporated PA Change Control 080 (Clarify K1 in SU loop) Incorporated PA Change Control 082 (Add/update QTY01 Codes) Incorporated PA Change Control 085 (REF*KY) Incorporated PA Change Control 090 (REF03 in REF*KY) Incorporated PA Change Control 093 (admin updates)
March 8, 2013	<ul> <li>Moving to v6.0 to align versions across all transaction sets</li> <li>Cleaned up references to Allegheny and APS throughout document</li> <li>Incorporate PA Change Control 087 (add DTM segments to be used with QTY*KC and QTY*KZ to denote current and future values)</li> <li>Incorporate PA Change Control 095 (REF03 in REF*KY)</li> <li>Incorporate PA Change Control 101 (remove AMT*LD from request; rescinds CC</li> <li>Incorporate PA Change Control 102 (increase REF*BF length in Data Dictionary)</li> <li>Incorporate PA Change Control 103 (uniform net metering consumption reporting)</li> <li>Incorporate MD Change Control 015 (add 867HI support for Maryland)</li> </ul>
March 17, 2014 Version 6.1	<ul> <li>Incorporate PA Change Control 109 (clarify use in PTD*BQ gray box)</li> <li>Incorporate PA Change Control 110 (clarify notes section for PECO)</li> <li>Incorporate PA Change Control 114 (add REF*PR to PTD*FG &amp; PTD*RT loops)</li> <li>Incorporate PA Change Control 115 (add PTD*RT loop for PECO)</li> <li>Incorporate MD Change Control 026 (PHI new CIS; changes to HU/HI)</li> <li>Incorporate MD Change Control 028 (BGE support of 867IU)</li> <li>Incorporate MD Change Control 029 (uniform net meter data reporting)</li> <li>Incorporate MD Change Control 030 (Net Meter Indicator in REF*KY)</li> <li>Incorporate NJ Change Control Electric 019 (ACE new CIS: changes to 867HU/H</li> <li>Incorporate NJ Change Control Electric 031 (RECO removal from IG)</li> <li>Incorporate NJ Change Control Electric 032 (PSE&amp;G admin updates)</li> </ul>

#### **General Notes**

Use

- Historical Usage will be provided to an ESP upon Request. The request will be made using the 814E documents.
- Historical Usage can be requested for an entity that is already a customer of the ESP
- Historical Usage can be requested for any customer that has not restricted the release
  of their historical usage. This is state dependent, some states allow this scenario, and
  others do not.
- The Historical Usage Transaction Set is sent by the LDC only one time per ESP request. No corrections or changes will be transmitted. The Historical Usage data is correct for the point in time that is it requested. Subsequent adjustments to Historical Usage will not be transmitted to the ESP.
  - If providing history totalized for an account, use "SU"/"BQ" (Summary) in PTD01, else if providing history by meter, use "BO"/"PM" (Physical Meter) in PTD01.

LDC Definitions:

The term LDC (Local Distribution Company) in this document refers to the utility. Each state may refer to the utility by a different acronym:

- EDC Electric Distribution Company (Pennsylvania, Delaware)
- LDC Local Distribution Company (New Jersey)
- EC Electric Company (Maryland)

**ESP Definitions:** 

The term ESP (Energy Service Provider) in this document refers to the supplier. Each state may refer to the supplier by a different acronym:

- EGS Electric Generation Supplier (Pennsylvania)
- TPS Third Party Supplier (New Jersey)
- ES Electric Supplier (Delaware)
- ES Electricity Supplier (Maryland)

Renewable Energy Provider Definition: The term Renewable Energy Provider in this document refers to the party that provides Renewable Energy Credits (RECs). This party does not provide generation to the account. Each state may refer to the Renewable Energy Provider by a different acronym:

• GPM – Green Power Marketer (New Jersey)

**Note:** The transaction will either have an ESP or a Renewable Energy Provider, but not both.

## Pennsylvania Notes

Use

- Transaction is conditional in Pennsylvania. PUC order dated 12/5/2012, Docket # M-2009-2092655, Page 13 requires "all EDCs covered by the smart meter mandates to install the capability to share a minimum of 12 months of historical interval account level or meter level usage via EDI."
- The EDC will provide interval detail at the lowest recorded level. The EGS will not be able to request a specific interval level.
- EDC support of 867HI:
  - Duquesne Supports; utilizes account summary loops (SU & BQ)
  - First Energy (ME,PE,PP, & WPP)— Supports; utilizes account summary loops (SU & BQ)
  - PECO Supports; utilizes account summary loops (SU & BQ) for MV90
    metered accounts and single rate AMI metered accounts. For AMI customers
    with more than one rate (service point), utilizes rate loops (RT & BQ).
  - PPL EU Supports; utilizes account summary loops (SU & BQ)
  - UGI Does not support
- The Pennsylvania default is 12 months of Historical Interval Usage, the following EDCs offer more than 12 months...
  - PECO default is 24 months

# Implementation Information

- PECO For any HIU in which the data precedes December 2010, PECO is required to force the QTY\*01 segment to "actual" because actual versus estimate data is not available for dates preceding December 2010.
- PECO For will implement a new "Rate" (RT) loop that will mimic the existing SU loop structure with the exception of the loop name (RT instead of SU). PECO will implement the RT loop such that a transaction will contain one RT loop for each rate (aka service point) included in the transaction. If the associated account is associated with two rates, then PECO will include two RT loops. Historical interval usage will therefore be provided at the rate level.

Requirements for uniform support of Net Metered Customers:

Account Level – both the SU and BQ loops are sent. Supported by DLCO, FE, PECO, and PPL. N/A to UGI as they do not have Interval Metered accounts.

- SU (Account Services Summary) Loop –reports consumption summarized/totalized for account by unit of measure for net metered customers. Individual intervals are not reported in the PTD\*SU loop.
  - 1. When the customer's consumption is greater than generation for a given service period, the KH will be reported as net consumption (QTY01 w/actual = QD or estimated = KA) with the total generation subtracted from total consumption.
  - 2. When the customer's generation is greater than consumption for a given service period, the KH will be reported as net generation (actual = 87 or estimated = 9H) with the total consumption subtracted from total generation).
  - 3. In either scenario, the OTY02 will never be signed negative.
- BQ (Account Services Detail) Loop reports consumption provided by meter summed to the account level by unit of measure. This will be looped for each month for which the history is being reported.
  - 1. The QTY02 will report the net KH for ALL metered services being summed to the account level for the given reporting period.
  - 2. When the net KH for a given report period is generation, the QTY01 will be either '87' or '9H' to denote net generation.
  - 3. When the net KH for a given report period is consumption, the QYT01 will be one of the six valid consumption quantity qualifiers.

Meter Level – none of the PA EDCs are reporting Historical Interval usage at the meter level in the EDI 867HI EDEWG may add requirements/examples should any EDC wish to send meter level consumption history in the 867HI.

## **Maryland Notes**

#### Use

- Maryland EDI Change Control 15 added support of the EDI 867 Historical Interval usage transaction for Maryland. As of 1/28/13 the exact utility implementation dates and looping have yet to be completely finalized:
- Delmarva / PEPCO will support in new CISat the account level. For non-EDI HI requests, the supplier should contact supplier support.
- BGE support of 867HI went live for AMI/Smart meter accounts only on 1/16/2014.
  - Supports only 500 requests per day; excess will be carried over to following day.
- Potomac Edison support of 867HI estimated for 3Q/4Q 2013 and will be at the account level only.

#### Requirements for uniform support of Net Metered Customers:

- Maryland EDI Change Control 029 adopted uniform net meter data reporting for Maryland. Utility support as of January 24, 2014...
  - BGE est. 3O 2014
  - PHI (Delmarva & PEPCO) with new CIS
  - Potomac Edison (FE) 4Q 2014 (MU/HU) & 1Q 2014 (IU/HIU)
- Account Level both the SU and BQ loops are sent. Supported by BGE, Potomac Edison (FE), & PHI companies (Delmarva MD & PEPCO MD).
- SU (Account Services Summary) Loop –reports consumption summarized/totalized for account by unit of measure for net metered customers. Individual intervals are not reported in the PTD\*SU loop.
  - 1. When the customer's consumption is greater than generation for a given service period, the KH will be reported as net consumption (QTY01 w/actual = QD or estimated = KA) with the total generation subtracted from total consumption.
  - 2. When the customer's generation is greater than consumption for a given service period, the KH will be reported as net generation (actual = 87 or estimated = 9H) with the total consumption subtracted from total generation).
  - 3. In either scenario, the QTY02 will never be signed negative.
- BQ (Account Services Detail) Loop reports consumption provided by meter summed to the account level by unit of measure. This will be looped for each month for which the history is being reported.
  - 1. The QTY02 will report the net KH for ALL metered services being summed to the account level for the given reporting period.
  - 2. When the net KH for a given report period is generation, the QTY01 will be either '87' or '9H' to denote net generation.
  - 3. When the net KH for a given report period is consumption, the QYT01 will be one of the six valid consumption quantity qualifiers.

Meter Level – none of the MD Electric Companies are reporting Historical Interval usage at the meter level in the EDI 867HI.

# **New Jersey Notes**

Use

- Transaction is optional in New Jersey.
- Atlantic City Electric effective with new CIS, ACE will support the EDI 867 Historical Interval Usage transaction summarized to the ACCOUNT level using the SU, BQ and FG loops. ACE will process Historical Usage requests as follows:

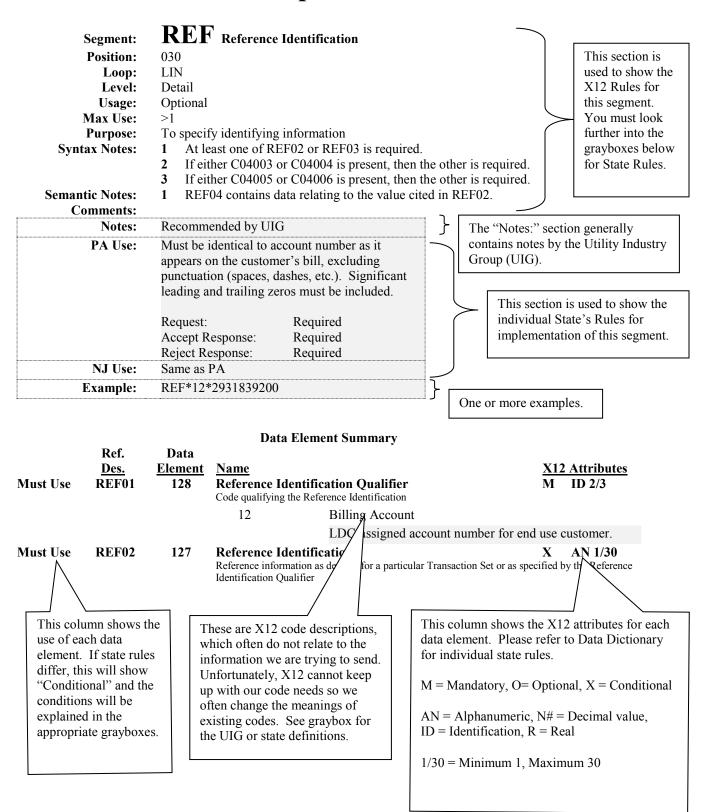
LIN05	Scenario	REF1P Code	867 Action
LIN05 = HU	HU available on non-interval account	No REF1P sent	867HU sent
LIN05 = HU	HU not available	REF1P = HUU	No 867 sent
LIN05 = HI	HI available	No REF1P sent	867HI sent
LIN05 = HI	Neither historical interval detail or summary data available	REF1P = HIU	No 867 sent
LIN05 = HI	HI data unavailable BUT summary HU data is available	No REF1P sent	867HU sent
LIN05 = HI	HI request on non-interval account	No REF1P sent	867HU sent

## **Delaware Notes**

Hs

• Transaction is not used in Delaware

# How to Use the Implementation Guideline



# 867 Historical Usage **X12 Structure**

# Functional Group ID=PT

## **Heading:**

	Pos. <u>No.</u>	Seg. <u>ID</u>	Name	Req. <u>Des.</u>	Max.Use	Loop <u>Repeat</u>	Notes and Comments
Must Use	010	ST	Transaction Set Header	M	1	<del></del>	
Must Use	020	BPT	Beginning Segment for Product Transfer and Resale	M	1		
			LOOP ID - N1			5	
	080	N1	Name	О	1		
	120	REF	Reference Identification	О	12		

#### **Detail:**

	Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u>	Req. Des.	Max.Use	Loop <u>Repeat</u>	Notes and Comments
			LOOP ID - PTD			>1	
Must Use	010	PTD	Product Transfer and Resale Detail	M	1		
	020	DTM	Date/Time Reference	O	10		
	030	REF	Reference Identification	O	20		
			LOOP ID - QTY			>1	
	110	QTY	Quantity	О	1		
	210	DTM	Date/Time Reference	O	10		

## **Summary:**

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

#### **Transaction Set Notes**

## Data Dictionary for 867 Historical Interval Usage

Appl Field	Field Name	Description	EDI Element	Loop / Related EDI Qualifier	Data Type
1	Purpose Code	Transaction Set Purpose	BPT01 = <b>52</b>		X(2)
2	Transaction Reference Number	Unique Number identifying this transaction.	BPT02		X(30)
3	System Date	Date this transaction was generated from sender's system	BPT03		9(8)
4	Report Type Code	Code to identify this transaction contains detailed usage information	$BPT04 = \mathbf{DD}$	BPT01 = <b>52</b>	X(2)
5	LDC Name	LDC's Name	N102	N1: N101 = <b>8S</b>	X(60)
6	LDC Duns	LDC's DUNS Number or DUNS+4 Number	N104	N1: N101 = <b>8S</b> N103 = <b>1</b> or <b>9</b>	X(13)
7	ESP Name	ESP's Name	N102	N1: N101 = SJ	X(60)
8	ESP Duns	ESP's DUNS Number or DUNS+4 Number	N104	N1: N101 = <b>SJ</b> N103 = <b>1</b> or <b>9</b>	X(13)
8.3	Renewable Energy Provider Name	Renewable Energy Provider 's Name	N102	N1: N101 = <b>G7</b>	X(60)
8.4	Renewable Energy Provider Duns	Renewable Energy Provider 's DUNS Number or DUNS+4 Number	N104	N1: N101 = <b>G7</b> N103 = <b>1</b> or <b>9</b>	X(13)
9	Customer Name	Customer Name	N102	N1: N101 = <b>8R</b>	X(60)
10	ESP Account Number	ESP Customer Account Number	REF02	N1: N101 = <b>8R</b> REF01 = <b>11</b>	X(30)
11	LDC Account Number	LDC Customer Account Number	REF02	N1: N101 = <b>8R</b> REF01 = <b>12</b>	X(30)
12	Old Account Number	Previous LDC Customer Account Number	REF02	N1: N101 = <b>8R</b> REF01 = <b>45</b>	X(30)

## PTD Loop for Historical Interval Usage Summarized by Account (PTD01 = SU)

A PTD Loop will be provided for each type of consumption measured for y meter (PTD01 = SU) in addition to the detail PTD loop for the meter and the PTD loop that provides Scheduling Determinants when appropriate

	op that provides seneduming				
13	Loop Identification	Indicates if usage is provided totalized	PTD01 = SU		X(2)
		or by meter.			
14.2	Service Period Start	Start date of the period for which these	DTM02	DTM01 = 150	X(8)
		readings are provided			
14.5	Service Period End	End date of the period for which these	DTM02	DTM01 = <b>151</b>	X(8)
		readings are provided			, ,
16.2	Quantity Qualifier	Represents whether the quantity is	QTY01		X(2)
		actual or estimated:			
		<b>KA</b> = Estimated Quantity Delivered			
		<b>QD</b> = Actual Quantity Delivered			
		87 = Actual Quantity Received (Net			
		Meter)			
		<b>9H</b> = Estimated Quantity Received (Net			
		Meter)			
16.4	Quantity Delivered	Represents quantity of consumption	QTY02	QTY01	9(15)
		delivered for billing period.			
16.6	Quantity Delivered	Indicates unit of measurement for	QTY03		X(2)
	Unit of Measurement	quantity of consumption delivered			
		during billing period.			

#### Version 6.1 PTD Loop for Historical Usage that is Summarized/Totalized by Rate (PTD01 = RT) A PTD Loop will be provided for each type of consumption measured for the overall account (PTD01=SU) or by meter (PTD01 = PM) or by rate (PTD01=RT) in addition to the PTD loop that provides Scheduling Determinants when appropriate Indicates if usage is provided totalized PTD01 = SULoop Identification X(2)or by meter. 17.2 A code for the Load Profile used for this REF02 PTD: REF01= **LO** Profile Group X(30)rate. Differs by LDC. Codes posted on LDC's Web site. REF02 PTD: REF01= NH 17.3 LDC Rate Code Code indicating the rate a customer is X(30)being charged by LDC per tariff. Codes posted on LDC's Web site 17.4 LDC Rate Sub-class Code to provide further classification of REF02 PTD: REF01= **PR** X(30)LDC Rate Code 17.4 **Ouantity Oualifier** Represents whether the quantity is OTY01 X(2)actual or estimated: **KA** = Estimated Quantity Delivered **QD** = Actual Quantity Delivered **87** = Actual Quantity Received (Net Meter) **9H** = Estimated Quantity Received (Net Meter) Represents quantity of consumption Quantity Delivered OTY02 OTY01 9(15) 17.5 delivered for billing period. Indicates unit of measurement for QTY03 17.6 **Quantity Delivered** X(2)Unit of Measurement quantity of consumption delivered during billing period. MEA03 177 Consumption Represents quantity of consumption MEA02 = PRO9(9),9(4) delivered for service period. Contains the difference in the meter readings (or as measured by the meter) multiplied by various factors, excluding Power Factor. MEA04 17.8 Unit of Measure Unit of measure for readings. X(2)17.9 Code used to benchmark, qualify, or MEA07 Measurement X(2)Significance Code further define a measurement value. Start date of the period for which these OTY: DTM01 = **150** 17.10 Service Period Start DTM02 X(8)readings are provided QTY: DTM01 = **151** Service Period End End date of the period for which these DTM02 17.11 X(8)readings are provided PTD Loop for Historical Interval Usage that is provided at Account Level (PTD01 = BO) A PTD Loop will be provided for each type of consumption measured (PTD01 = BO) in addition to the PTD loop that provides Scheduling Determinants when appropriate 21 Loop Identification Indicates if usage is provided totalized PTD01 = BQX(2)or by meter. 22.1 Service Period Begin Start date of the service period or start DTM02 DTM01 = 1509(8) date of the changed in meter. Date

Date

Service Period End

22.3

End date of the service period or end

date of the changed out meter.

DTM02

9(8)

DTM01 = 151

24				Versi	
	Meter Type	Code indicating type of consumption measured & interval at which measurements are taken.	REF02	PTD: REF01 = <b>MT</b>	X(5)
25	Quantity Qualifier	Represents whether the quantity is actual or estimated:  17 = Incomplete Quantity Delivered  19 = Incomplete Quantity Received (Net Meter)  20 = Unavailable  87 = Actual Quantity Received (Net Meter)  96 = Non-Billable Quantity  9H = Estimated Quantity Received (Net Meter)  KA = Estimated Quantity Delivered  QD = Actual Quantity Delivered	QTY01		X(2)
27	Quantity Delivered	Represents quantity of consumption delivered for billing period.	QTY02	QTY01	9(15)
28	Quantity Delivered Unit of Measurement	Indicates unit of measurement for quantity of consumption delivered during billing period.	QTY03		X(2)
29	Report Period Date/Time	The date/time of the end of the interval.	DTM02 (CCYYMMDD) and DTM03 (HHMM)	QTY: DTM01 = <b>582</b>	DTM02= 9(8) and DTM03= 9(4)
29.1	Time Code	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.  ED = Eastern Daylight Time ES = Eastern Standard Time	DTM04		X(2)
		ES – Eastern Standard Time			
This PTD I	PTE provides Scheduling Determ Loop Identification	Loop for Scheduling Determina	ents (PTD01 =	= FG)	X(2)
	provides Scheduling Determ	Loop for Scheduling Determina		PTD:REF01=LF	X(2) X(30)
30	provides Scheduling Determ  Loop Identification	Loop for Scheduling Determina inants when appropriate  Indicates if usage is provided totalized or by meter.	PTD01 = <b>FG</b> REF02		
30	Loop Identification  Loss Factor	Indicates if usage is provided totalized or by meter.  Loss Factor  A code for the Load Profile used for this customer. Differs by LDC. Codes posted on LDC's Web site.  Code indicating the rate a customer is being charged by LDC per tariff. Codes	PTD01 = <b>FG</b> REF02	PTD:REF01= <b>LF</b>	X(30)
30 31 32	Loop Identification  Loss Factor  Profile Group	Indicates if usage is provided totalized or by meter.  Loss Factor  A code for the Load Profile used for this customer. Differs by LDC. Codes posted on LDC's Web site.  Code indicating the rate a customer is	PTD01 = <b>FG</b> REF02  REF02	PTD:REF01= <b>LF</b> PTD: REF01= <b>LO</b>	X(30) X(30)
30 31 32 33	Loop Identification  Loss Factor  Profile Group  LDC Rate Code	Indicates if usage is provided totalized or by meter.  Loss Factor  A code for the Load Profile used for this customer. Differs by LDC. Codes posted on LDC's Web site.  Code indicating the rate a customer is being charged by LDC per tariff. Codes posted on LDC's Web site  Code to provide further classification of	PTD01 = <b>FG</b> REF02  REF02	PTD:REF01= <b>LF</b> PTD: REF01= <b>LO</b> PTD: REF01= <b>NH</b>	X(30) X(30) X(30)

# March 17, 2014 Version 6.1

				, 4151	JII U. I
37	Special Meter Configuration Code	Used to convey there's a special meter present on the account. For example, Net Metering	REF02	LIN: REF01 = <b>KY</b>	X(3)
38	Special Meter Configuration Information	PPLEU-used to report the max K1 (demand) the special meter supports	REF03	LIN: RF01 = <b>KY</b>	X(80)
39	Peak Load Contribution (PLC)	Peak load contributions provided to PJM for Installed Capacity calculation (coincident with PJM Peak).	QTY02	PTD: QTY01 = <b>K</b> C	9(15)
40	Unit of Measure	Indicates unit of measurement for quantity of consumption delivered during billing period.	QTY03 = <b>K1</b>	PTD: QTY01 = <b>QD</b>	X(2)
41	Network Service Peak Load	Customer's peak load contribution provided to PJM for the Transmission Service calculation (coincident with LDC peak).	QTY02	PTD: QTY01 = <b>KZ</b>	9(15)
42	Quantity Delivered Unit of Measurement	Indicates unit of measurement for quantity of consumption delivered during billing period.	QTY03 = <b>K1</b>	PTD: QTY01 = <b>QD</b>	X(2)

Segment: ST Transaction Set Header

**Position:** 010

Loop:

Level: Heading Usage: Mandatory

Max Use:

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:**

PA Use:	Required
NJ Use:	Optional
DE Use:	Not Used
MD Use:	Same as PA; see Notes section for utility support
Example:	ST*867*00000001

Must Use	Ref. Des. ST01	Data Element 143	Name Transaction Set Identifier Code Code uniquely identifying a Transaction Set	Att M	ributes ID 3/3
Must Use	ST02	329	Report Transaction Set Control Number Identifying control number that must be unique within the transaction set by the originator for a transaction set	M function	AN 4/9 nal group assigned

Segment: **BPT** Beginning Segment for Product Transfer and Resale

**Position:** 020

Loop:

Level: Heading Usage: Mandatory

Max Use:

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.

BPT03 identifies the transfer/resale date.
BPT08 identifies the transfer/resale time.

4 BPT09 is used when it is necessary to reference a Previous Report Number.

#### **Comments:**

PA Use:	Required
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	BPT*52*2008070112300001*20080701*C1

Must Use	Ref. <u>Des.</u> BPT01	Data Element 353	Name Transaction Set Pu Code identifying purpose		Attı M	ributes ID 2/2
			52	Response to Historical Inquiry Response to a request for historical me	eter re	ading.
Must Use	BPT02	127	Reference Identific Reference information as Identification Qualifier	ation defined for a particular Transaction Set or as spec	O cified b	AN 1/30 by the Reference
				n identification number assigned by the mber should be unique over all time.	origin	nator of this
Must Use	BPT03	373	<b>Date</b> Date (CCYYMMDD)		M	DT 8/8
			The transaction crea application system.	tion date – the date that the data was pro	ocesse	ed by the
Must Use	BPT04	755	Report Type Code Code indicating the title of	or contents of a document, report or supporting ite	O em	ID 2/2
			C1	Cost Data Summary Interval Data		

N1 Name (8S=LDC Name) **Segment:** 

**Position:** 080 Loop: N1 Level: Heading Optional Usage:

Max Use:

To identify a party by type of organization, name, and code **Purpose:** 

**Syntax Notes:** At least one of N102 or N103 is required.

If either N103 or N104 is present, then the other is required.

**Semantic Notes:** 

This segment, used alone, provides the most efficient method of providing **Comments:** 1 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.

PA Use:	Required
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	N1*8S*LDC COMPANY*1*007909411

Must Use	Ref. <u>Des.</u> N101	Data <u>Element</u> 98	Name Entity Identifier Code Code identifying an organizational entity, a physical location, proj 8S Consumer Service Provider (CS) LDC	M perty or an indi	ributes ID 2/3 vidual
Must Use	N102	93	Name Free-form name LDC Company Name	X	AN 1/60
Must Use	N103	66	Identification Code Qualifier  Code designating the system/method of code structure used for Ide  1 D-U-N-S Number, Dun & Brad  9 D-U-N-S+4, D-U-N-S Number  Suffix	street	,
Must Use	N104	67	Identification Code Code identifying a party or other code LDC D-U-N-S Number or D-U-N-S + 4 Number	X	AN 2/20

Segment: N1 Name (SJ=ESP Name)

Position: 080 Loop: N1 Level: Heading Usage: Optional

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.

PA Use:	Required
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	N1*SJ*ESP COMPANY*9*007909422ESP1

Must Use	Ref. <u>Des.</u> N101	Data <u>Element</u> 98	Name Entity Identifier C Code identifying an orga SJ	ode unizational entity, a physical location, property or Service Provider ESP	M	ributes ID 2/3 vidual
Must Use	N102	93	Name Free-form name ESP Company Nam		X	AN 1/60
Must Use	N103	66	Identification Code Code designating the sys 1 9	stem/method of code structure used for Identificat D-U-N-S Number, Dun & Bradstreet		. ,
Must Use	N104	67	Identification Code Code identifying a party		X	AN 2/20

N1 Name (G7=Renewable Energy Provider Name) **Segment:** 

**Position:** 080 Loop: N1 Level: Heading Optional Usage:

Max Use:

To identify a party by type of organization, name, and code **Purpose:** 

**Syntax Notes:** At least one of N102 or N103 is required.

If either N103 or N104 is present, then the other is required.

**Semantic Notes:** 

This segment, used alone, provides the most efficient method of providing **Comments:** 1 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.

PA Use:	Not Used
	Required if sent and for Renewable Energy program, see New Jersey Notes section for
	utility support
DE Use:	N/A
MD Use:	N/A
Example:	N1*G7*RENEWABLE COMPANY*9*007909422GPM

Must Use	Ref. <u>Des.</u> N101	Data <u>Element</u> 98	Name Entity Identifier Code	<u>Attribu</u> M ID	<u>tes</u> 2/3
Trade of	11101	70	Code identifying an organizational entity, a physical location, p. G7 Entity Providing the Service		
			Renewable Energy Provider		
Must Use	N102	93	Name Free-form name	X AN	N 1/60
			Renewable Energy Provider Company Name		
Must Use	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for 1 D-U-N-S Number, Dun & Bra	Identification Code (67	1/2
			9 D-U-N-S+4, D-U-N-S Number Suffix	er with Four Chara	cter
Must Use	N104	67	Identification Code Code identifying a party or other code Renewable Energy Provider D-U-N-S Number or I		N 2/20 ber

Segment: N1 Name (8R=Customer Name)

Position: 080 Loop: N1 Level: Heading Usage: Optional

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.

PA Use:	Required
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	Same as PA; see Notes section for utility support
MD Use:	Same as PA; see Notes section for utility support
Example:	N1*8R*JANE DOE

	Ref.	Data	Data Elem	ent Summary		
	Des.	<b>Element</b>	<u>Name</u>		Att	<u>ributes</u>
Must Use	N101	98	<b>Entity Identifier C</b>	ode	M	ID 2/3
			Code identifying an orga 8R	nizational entity, a physical location, property or a Consumer Service Provider (CSP) Cus		
				End Use Customer		
Must Use	N102	93	Name Free-form name		X	AN 1/60
			Customer Name as i	it appears on the customer's bill		

Segment: **REF** Reference Identification (11=ESP Account Number)

Position: 120
Loop: N1
Level: Heading
Usage: Optional
Max Use: 12

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
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:** 

PA Use:	Optional if it was previously provided on an 814 to the LDC and the ESP is the supplier of
	record.
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	Same as PA; see Notes section for utility support
MD Use:	Same as PA; see Notes section for utility support
Example:	REF*11*8645835

	Ref. Des.	Data <u>Element</u>	Name	·	Att	<u>ributes</u>
Must Use	REF01	128	Reference Ident	ification Qualifier	M	ID 2/3
			Code qualifying the I	Reference Identification		
			11	Account Number		
				ESP-assigned account number for end	use c	ustomer.
<b>Must Use</b>	REF02	127	Reference Ident	ification	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			

Segment: REF Reference Identification (12=LDC Account Number)

Position: 120
Loop: N1
Level: Heading
Usage: Optional
Max Use: 12

**Purpose:** To specify identifying information

Syntax Notes: 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
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:** 

PA Use:	Required
NJ Use:	Same as PA; see Notes section for utility support- Must be identical to account number as it appears on the customer's bill, excluding punctuation (spaces, dashes, etc.). Significant leading and trailing zeros must be included.
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	REF*12*519703123457

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Att	<u>ributes</u>
Must Use	REF01	128	Reference Identific	ation Qualifier	M	ID 2/3
			Code qualifying the Refe	rence Identification		
			12	Billing Account		
				LDC-assigned account number for end	use o	customer.
Must Use	REF02	127	Reference Identific Reference information as Identification Qualifier	ation defined for a particular Transaction Set or as spec	X cified b	AN 1/30 by the Reference

Segment: REF Reference Identification (45=LDC Old Account Number)

Position: 120
Loop: N1
Level: Heading
Usage: Optional
Max Use: 12

**Purpose:** To specify identifying information

Syntax Notes: 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
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:** 

PA Use:	Required if account number changed in the last 60 days.
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	REF*45*451105687500

			Data Elen	nent Summary		
Must Use	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Code qualifying the Reference 45	_	Att M	ributes ID 2/3
				LDC's previous account number for the customer.	ie end	luse
Must Use	REF02	127	Reference Identification and Identification Qualifier	as defined for a particular Transaction Set or as spe-	X cified b	AN 1/30 by the Reference

Segment: PTD Product Transfer and Resale Detail (SU= Interval Summary-Account)

Position: 010
Loop: PTD
Level: Detail
Usage: Mandatory

Max Use:

**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:	This PTD Loop will be used when providing Historical Interval Usage by account. The PTD*SU Loop sums the intervals for the month by unit of measure for each bill period. Demand is optional in the PTD*SU loop. Individual intervals are not reported in the PTD*SU Loop.  One PTD*SU loop is required for each unit of measure for each bill period.
PA Use:	Required if sending HI summed to the account level
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Examples:	PTD*SU

	Des.	Element	<u>Name</u>		<u>Attributes</u>
Must Use	PTD01	521	<b>Product Transfer</b> Code identifying the typ		M ID 2/2
			SU	Designated Items	
				Account Services Summary	

Segment: QTY Quantity

Position: 110
Loop: QTY
Level: Detail
Usage: Optional

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:	Each QTY/MEA/DTM loop conveys consumption information about one interval.
PA Use:	Required if providing Historical Usage by Account; otherwise, not used.  Each QTY/MEA/DTM loop conveys consumption information about one bill period.  Note: For an interval account, this provides the net total usage for the bill period.
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	QTY*QD*5210*KH

	Ref.	Data		·
	Des.	<b>Element</b>	<u>Name</u>	<u>Attributes</u>
Must Use	QTY01	673	Quantity Qualifier	M ID 2/2
			Code specifying the type	
			KA	Estimated
				Used when Quantity in QTY02 is Estimated
			QD	Quantity Delivered
				Used when Quantity in QTY02 is Actual
			87	Quantity Received
				Quantity Received from customer in a Co-generation environment
			9H	Estimated Duration
				The quantity received shown is an estimated quantity in a Co-generation environment
Must Use	QTY02	380	<b>Quantity</b> Numeric value of quantity	X R 1/15
Must Use	QTY03	355	Unit or Basis for M Code specifying the units has been taken	in which a value is being expressed, or manner in which a measurement
			K1	Kilowatt Demand (KW)
			K2	Represents potential power load measured at predetermined intervals Kilovolt Amperes Reactive Demand (kVAR)
			K2	. , ,
				Reactive power that must be supplied for specific types of customer's equipment; billable when kilowatt demand usage meets or exceeds a defined parameter
			K3	Kilovolt Amperes Reactive Hour (kVARH)
				Represents actual electricity equivalent to kilowatt hours; billable when usage meets or exceeds defined parameters
			K4	Kilovolt Amperes (KVA)
			KH	Kilowatt Hour

Segment: **DTM** Date/Time Reference (150=Service Period Start)

Position: 210
Loop: QTY
Level: Detail
Usage: Optional
Max Use: 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes:** 1 At least one of DTM02 DTM03 or DTM05 is required.

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:	This date reflects the beginning of the date range for this account for this billing period.
PA Use:	Required.
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	DTM*150*20080101

Must Use	Ref. <u>Des.</u> DTM01	Data Element 374		Name Date/Time Qualifier Code specifying type of date or time, or both date and time		Attributes M ID 3/3	
			150	Service Period Start			
Must Use	DTM02	373	Date Date expressed as	CCYYMMDD	X	<b>DT</b> 8/8	

Segment: DTM Date/Time Reference (151=Service Period End)

Position: 210
Loop: QTY
Level: Detail
Usage: Optional
Max Use: 10

**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:	This date reflects the end of the date range for this account for this billing period.							
PA Use:	Required.							
NJ Use:	Same as PA; see Notes section for utility support							
DE Use:	N/A							
MD Use:	Same as PA; see Notes section for utility support							
Example:	DTM*151*20080131							

	Ref.	Data Floment	Nama		A 44	wihtos
Must Use	<u>Des.</u> DTM01	Element 374	Name Date/Time O	ualifion	Att.	ributes ID 3/3
with the cost	DIMIUI	3/4		ype of date or time, or both date and time	IVI	110 3/3
			151	Service Period End		
Must Use	DTM02	373	Date Date expressed as	CCYYMMDD	X	<b>DT</b> 8/8

Segment: **PTD** Product Transfer and Resale Detail (RT=Rate)

Position: 010 Loop: PTD Level: Detail Usage: Mandatory

Max Use:

**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:** 

PA Use:	Required if providing Historical Usage summarized/totalized by rate. PECO will send
	for AMI metered accounts with more than one rate (service point)
	Note: Different rates may have different bill periods.
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Not Used
Examples:	PTD*RT

#### **Data Element Summary**

	Ref.	Data				
	Des.	<b>Element</b>	Name .		<u>Attributes</u>	
Must Use	PTD01	521	<b>Product Transfe</b>	er Type Code	M ID 2/2	
			Code identifying the	type of product transfer		
			DT	D 4		

RT Rate

Consumption Summarized/Totalized for Rate.

Segment: REF Reference Identification (LO=Load Profile)

Position: 030 Loop: PTD Level: Detail Usage: Optional Max Use: 20

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
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:**

PA Use:	Required for PJM participants using this loop
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Not Used
Example:	REF*LO*GS

Must Use	Ref. <u>Des.</u> REF01	Data Element 128		Identification Qualifier g the Reference Identification	<u>X12</u> M	2 Attributes ID 2/3
			LO	Load Planning Number		
				Load profile		
Must Use	REF02	127	Reference I	dentification	X	AN 1/30
			Reference infor Identification (	rmation as defined for a particular Transaction Set or as sp Qualifier	ecified	by the Reference

Segment:  ${\bf REF}$  Reference Identification (NH=LDC Rate Class)

Position: 030
Loop: PTD
Level: Detail
Usage: Optional
Max Use: 20

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
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:** 

PA Use:	PA Use: Required for PJM participants using this loop						
NJ Use:	Not Used						
DE Use:	Not Used						
MD Use:	Not Used						
Example:	REF*NH*GS1						

Must Use	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualifier Code qualifying the Reference Identification		Att:	ributes ID 2/3
			NH	LDC Rate Code		
Must Use	REF02	127	Reference Id Reference inform Identification Qu	nation as defined for a particular Transaction Se	X et or as specified l	AN 1/30 by the Reference

Segment: REF Reference Identification (PR=LDC Rate Sub-Class)

Position: 030
Loop: PTD
Level: Detail
Usage: Optional
Max Use: 20

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
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:** 

PA Use:	Conditional: If maintained by utility, must be sent for each meter that is used for billing					
	purposes. This segment must also be sent when account has UNMETERED services					
	available for generation service.					
NJ Use:	Not Used					
DE Use:	Not Used					
MD Use:	Not Used					
Example:	REF*PR*123					

#### **Data Element Summary**

Must Use	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128		dentification Qualifier g the Reference Identification	Attı M	ributes ID 2/3
			PR	Price Quote Number LDC Rate Subclass – Used to provide classification of a rate.	furthe	er

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

Segment: QTY Quantity

Position: 110
Loop: QTY
Level: Detail
Usage: Optional

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:	Each QTY/MEA/DTM loop conveys consumption information about one metering
	period.
PA Use:	Required
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Not Used
Example:	QTY*QD*5210*KH

Must Use	Ref. <u>Des.</u> QTY01	Data Element 673	Name Quantity Qualifier	Attributes M ID 2/2
			Code specifying the type	
			KA	Estimated Quantity Delivered Used when the quantity delivered is an estimated quantity.
			QD	Actual Quantity Delivered Used when the quantity delivered is an actual quantity.
			87	Actual Quantity Received (Net Metering) Used when the net generation quantity received is
				actual.
			9H	Estimated Quantity Received (Net Metering)
				Used when the net generation quantity received is estimated.
Must Use	QTY02	380	<b>Quantity</b> Numeric value of quantity	X R 1/15
Must Use	QTY03	355	Unit or Basis for M Code specifying the units has been taken	leasurement Code M ID 2/2 in which a value is being expressed, or manner in which a measurement
			K1	Kilowatt Demand (KW)
				Represents potential power load measured at predetermined intervals
			K2	Kilovolt Amperes Reactive Demand (KVAR)
				Reactive power that must be supplied for specific types of customer's equipment; billable when kilowatt demand usage meets or exceeds a defined parameter
			K3	Kilovolt Amperes Reactive Hour (KVARH)
				Represents actual electricity equivalent to kilowatt hours; billable when usage meets or exceeds defined parameters
			K4	Kilovolt Amperes (KVA)
			KH	Kilowatt Hour (KWH)

Segment: MEA Measurements

Position: 160
Loop: QTY
Level: Detail
Usage: Optional
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:	The MEA segment is sent for each QTY loop. The MEA will indicate the "time of use" that applies to the QTY. If meter readings are included in the MEA, they will indicate the "time of use" that the meter readings apply to.
PA Use:	Optional field for time of use other than totalizer (MEA07=51).  Optional for time of use equal to totalizer (MEA07=51) if that is the only time of use on the account.
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Not Used
Examples:	MEA**PRQ*14*K1***51 (If meter measures multiple things, you need to send multiple QTY loops, one for each unit of measurement).

	Ref.	Data		•			
Must Use	Des. MEA02	Element 738	Name Measurement Qua Code identifying a speci	alifier  If it is product or process characteristic to which a me	O	ributes ID 1/3 nent applies	
			PRQ	Consumption			
Must Use	MEA03	739	Measurement Valor The value of the measure	<del></del>	X	R 1/20	
			Represents quantity of consumption delivered for service period. Contains the difference in the meter readings (or as measured by the meter) multiplied by various factors, excluding Power Factor.				
Must Use	MEA04	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurer has been taken				
			K1				
			Represents potential power load measured at predetermined intervals				
			K2 Kilovolt Amperes Reactive Demand				
		Reactive power that must be supplied for specific type of customer's equipment; billable when kilowatt dema usage meets or exceeds a defined parameter					
			K3 Kilovolt Amperes Reactive Hour				
				Represents actual electricity equivalent hours; billable when usage meets or ex parameters			
			K4	Kilovolt Amperes (KVA)			

# March 17, 2014 Version 6.1

					V C131011 U.1
		K5	Kilovolt Amperes Reactive		
		KH	Kilowatt Hour		
MEA07	MEA07 935	Measurement Significance Code		O	ID 2/2
		Code used to be	t value		
		41	Off Peak		
		42	On Peak		
		43	Intermediate		
		51	Total		
			Totalizer		
		66	Shoulder		
	MEA07	MEA07 935	MEA07 935 Measurement Code used to be 41 42 43 51	MEA07 935 Measurement Significance Code Code used to benchmark, qualify or further define a mea 41 Off Peak 42 On Peak 43 Intermediate 51 Total Totalizer	MEA07 935 Measurement Significance Code Code used to benchmark, qualify or further define a measurement 41 Off Peak 42 On Peak 43 Intermediate 51 Total Totalizer

Segment: DTM Date/Time Reference (150=Service Period Date)

Position: 210
Loop: QTY
Level: Detail
Usage: Optional
Max Use: 10

**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:**

PA Use:	Required
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Not Used
Example:	DTM*150*19990630

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Att	<u>ributes</u>
Must Use	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time		M	ID 3/3
			150	Service Period Start		
Must Use	DTM02	373	Date Date expressed as	CCYYMMDD	X	DT 8/8

Segment: DTM Date/Time Reference (151=Service Period Date)

Position: 210
Loop: QTY
Level: Detail
Usage: Optional
Max Use: 10

**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:**

PA Use:	Required
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Not Used
Example:	DTM*151*19990701

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Att	<u>ributes</u>
Must Use	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time		M	ID 3/3
			151	Service Period End		
Must Use	DTM02	373	Date Date expressed as	CCYYMMDD	X	DT 8/8

Segment: PTD Product Transfer and Resale Detail (BQ=Account Services Detail)

Position: 010 Loop: PTD 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:	This PTD Loop will be used when providing Historical Interval Usage by account. There
	must be one loop for each unit of measurement.
PA Use:	Required if sending HI summed to the account level.
	<b>Note</b> : One loop for kWh is required, all other unit of measure loops are optional.
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see notes section for utility support
Examples:	PTD*BQ

#### **Data Element Summary**

	Ref.	Data		
	Des.	<b>Element</b>	<u>Name</u>	<u>Attributes</u>
Must Use	PTD01	521	Product Transfer Type Code	M ID 2/2

Code identifying the type of product transfer

BQ Other

**Account Services Detail** 

Issue from inventory, when a specific reason type is not

otherwise provided

Consumption Provided by Meter by unit of measure.

Segment: **DTM** Date/Time Reference (150=Service Period Start)

Position: 020
Loop: PTD
Level: Detail
Usage: Optional
Max Use: 10

**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:	This date reflects the beginning of the date range for this account for this billing period.
PA Use:	Required.
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	DTM*150*20080101

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Att	<u>ributes</u>
Must Use	$\overline{DTM01}$	374	Date/Time Qu	ualifier	M	ID 3/3
			Code specifying t	ype of date or time, or both date and time		
			150	Service Period Start		
Must Use	<b>DTM02</b>	373	Date		X	<b>DT 8/8</b>
			Date expressed as	CCYYMMDD		

Segment: **DTM** Date/Time Reference (151=Service Period End)

Position: 020
Loop: PTD
Level: Detail
Usage: Optional
Max Use: 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes:** 1 At least one of DTM02 DTM03 or DTM05 is required.

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:	This date reflects the end of the date range for this account for this billing period.
PA Use:	Required.
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	DTM*151*20080131

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Att	<u>ributes</u>
Must Use	$\overline{DTM01}$	374	Date/Time Qu	ualifier	M	ID 3/3
			Code specifying t	ype of date or time, or both date and time		
			151	Service Period End		
Must Use	DTM02	373	Date		X	DT 8/8
			Date expressed as	CCYYMMDD		

Segment: REF Reference Identification (MT=Meter Type)

Position: 030
Loop: PTD
Level: Detail
Usage: Optional
Max Use: 20

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
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:** 

PA Use:	Required if providing Historical Interval Usage by account; otherwise, not used.
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	REF*MT*KH060

#### **Data Element Summary**

Must Use	Ref. <u>Des.</u> REF01	Data Element 128		entification Qualifier he Reference Identification	<u>X12</u> M	2 Attributes ID 2/3
			MT	Meter Type		
				Billing Data Types and Interval Frequency	uencies	S
Must Use	REF02	127	127 Reference Identification Reference information as defined for a particular Transaction Set or as sp Identification Qualifier		X pecified b	AN 1/30 by the Reference
two characters are the type of co metering interval. "COMBO" is				is MT, the meter type is expressed as a five- s are the type of consumption, the last three c val. "COMBO" is used for a meter that reco Valid values can be a combination of the fol	haract ords mo	ers are the ore than one

Type of	Consumption	Metering In	terval
K1	Kilowatt Demand	Nnn	Number of minutes from 001 to 999
K2	Kilovolt Amperes Reactive Demand	ANN	Annual
K3	Kilovolt Amperes Reactive Hour	BIA	Bi-annual
K4	Kilovolt Amperes	BIM	Bi-monthly
K5	Kilovolt Amperes Reactive	DAY	Daily
KH	Kilowatt Hour	MON	Monthly
T9	Thousand Kilowatt Hours	QTR	Quarterly

#### For Example:

KHMON Kilowatt Hours Per Month

K1015 Kilowatt Demand per 15 minute interval

#### **Other Valid Codes**

COMBO This code is used to indicate that the meter has multiple measurements, e.g., one

meter that measures both kWh and Demand.

Segment: QTY Quantity

Position: 110
Loop: QTY
Level: Detail
Usage: Optional

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:	Each QTY/MEA/DTM loop conveys consumption information about one metering interval.
PA Use:	Required if providing Historical Interval Usage by account; otherwise, not used.  Note: For a net metered account, the "net usage" is provided.
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	QTY*QD*5210*KH

			Data Eleme	ent Summary
	Ref.	Data		
	Des.	<b>Element</b>	<u>Name</u>	<u>Attributes</u>
Must Use	QTY01	673	<b>Quantity Qualifier</b>	M ID 2/2
			Code specifying the type	of quantity
			17	Incomplete Quantity Delivered
				Used when multi-metered account rolled up and at least
				one of the meters is not available.
			19	Incomplete Quantity Received (Net Metering)
				Used when multi-metered account rolled up, at least one
				of the meters is not available and the total is net
				generation.
			20	Unavailable
				Used when meter data is not available to fill the
			27	intervals.
			87	Actual Quantity Received (Net Metering)
				Used when the net generation quantity received is actual.
			96	Non-Billable Quantity
			90	Indicates this quantity and interval are outside of the
				actual bill period
			9H	Estimated Quantity Received (Net Metering)
			<i>7</i> 11	Used when the net generation quantity received is
				estimated.
			KA	Estimated Quantity Delivered
				Used when the quantity delivered is an estimated
				quantity.
			QD	Actual Quantity Delivered
				Used when the quantity delivered is an actual quantity.
Must Use	QTY02	380	<b>Quantity</b> Numeric value of quantity	X R 1/15
Must Use	QTY03	355	Unit or Basis for M Code specifying the units has been taken	teasurement Code M ID 2/2 in which a value is being expressed, or manner in which a measurement
			K1	Kilowatt Demand (KW)

# March 17, 2014 Version 6.1

	Represents potential power load measured at predetermined intervals
K2	Kilovolt Amperes Reactive Demand (kVAR)
K3	Reactive power that must be supplied for specific types of customer's equipment; billable when kilowatt demand usage meets or exceeds a defined parameter Kilovolt Amperes Reactive Hour (kVARH)
	Represents actual electricity equivalent to kilowatt hours; billable when usage meets or exceeds defined parameters
K4	Kilovolt Amperes (KVA)
KH	Kilowatt Hour

Segment: DTM Date/Time Reference (582=Report Report)

Position: 210
Loop: QTY
Level: Detail
Usage: Optional
Max Use: 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes:** 1 At least one of DTM02 DTM03 or DTM05 is required.

3 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:	End date and time of the period for which the quantity is provided. Time will include zone. Each interval must be explicitly labeled with the date and time.
PA Use:	Required.
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	DTM*582*20080115*1500*ET

#### **Data Element Summary**

Must Use	Ref. <u>Des.</u> DTM01	Data Element 374	Name Date/Time Quali Code specifying type of	<b>fier</b> of date or time, or both date and time	At:	tributes ID 3/3
			582	Report Period		
				The date/time of the end of the interva	1.	
Must Use	DTM02	373	Date Date expressed as CC	YYMMDD	X	DT 8/8
Must Use	DTM03	337	Time  X TM 4/8  Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)			
			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 (BO= Interval Summary)

Position: 010
Loop: PTD
Level: Detail
Usage: Mandatory

Max Use:

**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.

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

# **Semantic Notes:** Comments:

Comments.	
Notes:	This PTD Loop will be used when providing Historical Interval Usage by meter. The PTD*BO Loops sum the intervals for the month by unit of measure for each meter. In the PTD*BO consumption across intervals and across the same unit of measure is summarized at the meter level by meter cycle reporting period. Demand is never reported in the PTD*BO Loop. Individual intervals are not reported in the PTD01=BO Loop.
	One PTD*BO loop is required for each meter for each unit of measure.
	There will be on PTD*BO loop for each month.
PA Use:	Optional - Required if providing Historical Interval Usage by Meter; otherwise, not used.
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Examples:	PTD*BO***MG*87876567

Must Use	Ref. <u>Des.</u> PTD01	Data Element 521		ansfer Type Code g the type of product transfer	Attri M	ibutes ID 2/2
			BO	Designated Items		
				Meter Services Interval Summary		
Must Use	PTD04	128	Reference Io	dentification Qualifier	X	ID 2/3
			Code qualify	ving the Reference Identification		
			MG	Meter Number		
Must Use	PTD05	127	Reference Io	dentification	X	AN 1/30
				formation as defined for a particular Transac the Reference Identification Qualifier	tion Set	or as
			Meter Numb	er		
				ers will contain only uppercase letters (A to Z		• • •
			•	nctuation (spaces, dashes, etc.) must be exclu trailing zeros that are part of the meter number		-

Segment: **DTM** Date/Time Reference (150=Service Period Start)

Position: 020
Loop: PTD
Level: Detail
Usage: Optional
Max Use: 10

**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:	This date reflects the beginning of the date range for this meter for this billing period.  This specific PTD loop is required if there are metered services on the account. Required, unless a "DTM*514" is substituted for this code.						
PA Use:	Optional - Required if providing Historical Interval Usage by Meter; otherwise, not used.						
NJ Use:	Same as PA; see Notes section for utility support						
DE Use:	N/A						
MD Use:	MD Use: Same as PA; see Notes section for utility support						
Example: DTM*150*20080101							

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Att	<u>ributes</u>
Must Use	$\overline{DTM01}$	374	Date/Time Q	ualifier	M	ID 3/3
			Code specifying t	type of date or time, or both date and time		
			150	Service Period Start		
Must Use	DTM02	373	<b>Date</b> Date expressed as	s CCYYMMDD	X	DT 8/8

Segment: DTM Date/Time Reference (151=Service Period End)

Position: 020
Loop: PTD
Level: Detail
Usage: Optional
Max Use: 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes:** 1 At least one of DTM02 DTM03 or DTM05 is required.

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:	This date reflects the end of the date range for this meter for this billing period.
	This specific PTD loop is required if there are metered services on the account.
	Required, unless a "DTM*514" is substituted for this code.
PA Use:	Optional - Required if providing Historical Interval Usage by Meter; otherwise, not used.
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	DTM*151*20080131

Must Use	Ref. <u>Des.</u> DTM01	Data Element 374	Name Date/Time Qualifier Code specifying type of date or time, or both date and time		Att. M	ributes ID 3/3
			151	Service Period End		
Must Use	DTM02	373	Date Date expressed as	CCYYMMDD	X	<b>DT</b> 8/8

Segment: DTM Date/Time Reference (514=Meter Exchange Date)

Position: 020
Loop: PTD
Level: Detail
Usage: Optional
Max Use: 10

**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:	Used in conjunction with either the Service Period Start Date or the Service Period End Date to indicate when a meter has been replaced. Separate PTD loops must be created for each period and meter.  Required when a meter is changed and the meter agent does not change.
PA Use:	Optional - Required if providing Historical Interval Usage by Meter; otherwise, not used.
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	Date Range in the first PTD is shown as: DTM*150*20080201 DTM*514*20080214
	Date Range in the second PTD is shown as: DTM*514*20080214 DTM*151*20080228

Must Use	Ref. <u>Des.</u> DTM01	Data Element 374	——————————————————————————————————————		Att M	ributes ID 3/3
			514	Transferred		
				Exchanged meter read date		
Must Use	DTM02	373	Date Date expressed as CCYY	YMMDD	X	DT 8/8

Segment: QTY Quantity

Position: 110
Loop: QTY
Level: Detail
Usage: Optional

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:	Each QTY/MEA/DTM loop conveys consumption information about one metering interval.
PA Use:	Optional - Required if providing Historical Interval Usage by Meter; otherwise, not used.
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	QTY*QD*5210*KH

	D 6	ъ.	Data Eitin	int Summary
Must Use	Ref. <u>Des.</u> QTY01	Data Element 673	Name Quantity Qualifier Code specifying the type	Attributes M ID 2/2
				• •
			KA	Estimated Quantity Delivered Used when the quantity delivered is an estimated
				quantity.
			QD	Actual Quantity Delivered
				Used when the quantity delivered is an actual quantity.
			87	Actual Quantity Received (Net Metering)
				Used when the net generation quantity received is actual.
			9H	Estimated Quantity Received (Net Metering)
				Used when the net generation quantity received is
				estimated.
Must Use	QTY02	380	<b>Quantity</b> Numeric value of quantity	X R 1/15
Must Use	QTY03	355	Unit or Basis for M Code specifying the units has been taken	reasurement Code M ID 2/2 in which a value is being expressed, or manner in which a measurement
			K1	Kilowatt Demand (KW)
				Represents potential power load measured at predetermined intervals
			K2	Kilovolt Amperes Reactive Demand (kVAR)
			К3	Reactive power that must be supplied for specific types of customer's equipment; billable when kilowatt demand usage meets or exceeds a defined parameter Kilovolt Amperes Reactive Hour (kVARH)
			K.J	` ′
				Represents actual electricity equivalent to kilowatt hours; billable when usage meets or exceeds defined parameters
			K4	Kilovolt Amperes (KVA)
			KH	Kilowatt Hour

Segment: PTD Product Transfer and Resale Detail (PM=Meter Detail)

Position: 010 Loop: PTD Level: Detail Usage: Mandatory

Max Use:

**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:	This PTD Loop will be used when providing Historical Interval Usage by meter. There
	must be one loop for each unit of measurement for each meter.
PA Use:	Optional - Required if providing Historical Interval Usage by Meter; otherwise, not used.
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Examples:	PTD*PM

#### **Data Element Summary**

	Ref.	Data		
	Des.	<b>Element</b>	<u>Name</u>	<u>Attributes</u>
Must Use	PTD01	521	<b>Product Transfer Type Code</b>	M ID 2/2

Code identifying the type of product transfer

PM Physical Meter Information

Consumption Provided by Meter by unit of measure.

Segment: **DTM** Date/Time Reference (150=Service Period Start)

Position: 020
Loop: PTD
Level: Detail
Usage: Optional
Max Use: 10

**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:	Notes: This date reflects the beginning of the date range for this meter for this billing period.  This specific PTD loop is required if there are metered services on the account.						
PA Use: Optional - Required if providing Historical Interval Usage by Meter or unless a "DTM*514" is substituted for this code, otherwise not used.							
NJ Use: Same as PA; see Notes section for utility support							
DE Use:	N/A						
MD Use: Same as PA; see Notes section for utility support							
Example:	DTM*150*20080101						

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Att	<u>ributes</u>
Must Use	DTM01	374	Date/Time Q	ualifier	M	ID 3/3
			Code specifying t	type of date or time, or both date and time		
			150	Service Period Start		
Must Use	DTM02	373	Date		X	<b>DT 8/8</b>
			Date expressed as	s CCYYMMDD		

Segment: **DTM** Date/Time Reference (151=Service Period End)

Position: 020
Loop: PTD
Level: Detail
Usage: Optional
Max Use: 10

**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:	Notes: This date reflects the end of the date range for this meter for this billing period.  This specific PTD loop is required if there are metered services on the account.						
PA Use: Optional - Required if providing Historical Interval Usage by Meter or unless a "DTM*514" is substituted for this code, otherwise not used.							
NJ Use:	Same as PA; see Notes section for utility support						
DE Use:	N/A						
MD Use: Same as PA; see Notes section for utility support							
Example:	DTM*151*20080131						

	Ref. <u>Des.</u>	Data <u>Element</u>	Name		Att	<u>ributes</u>
Must Use	DTM01	374	Date/Time Que Code specifying t	ualifier ype of date or time, or both date and time	M	ID 3/3
			151	Service Period End		
Must Use	DTM02	373	Date Date expressed as	CCYYMMDD	X	DT 8/8

Segment: DTM Date/Time Reference (514=Meter Exchange Date)

Position: 020
Loop: PTD
Level: Detail
Usage: Optional
Max Use: 10

**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:	Used in conjunction with either the Service Period Start Date or the Service Period End Date to indicate when a meter has been replaced. Separate PTD loops must be created for each period and meter.
PA Use:	Optional - Required if providing Historical Interval Usage by Meter and when a meter is changed and the meter agent does not change, otherwise not used.
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	Date Range in the first PTD is shown as: DTM*150*20080201 DTM*514*20080214
	Date Range in the second PTD is shown as: DTM*514*20080214 DTM*151*20080228

Must Use	Ref. <u>Des.</u> DTM01	Data Element 374	Name Date/Time Qualifice Code specifying type of o	er late or time, or both date and time	Att M	ributes ID 3/3
			514	Transferred		
				Exchanged meter read date		
Must Use	DTM02	373	Date Date expressed as CCYY	YMMDD	X	DT 8/8

Segment:  ${\bf REF}$  Reference Identification (MG=Meter Number)

Position: 030
Loop: PTD
Level: Detail
Usage: Optional
Max Use: 20

**Purpose:** To specify identifying information

Syntax Notes: 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
 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:** 

PA Use:	Optional - Required if providing Historical Interval Usage by Meter; otherwise, not used.
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	REF*MG*87876567

Must Use	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identific Code qualifying the	cation Qualifier  Reference Identification	Att M	ributes ID 2/3
			MG	Meter Number		
				Meter ID Serial Number		
Must Use	REF02	127		cation ion as defined for a particular Transaction ference Identification Qualifier	X on Set	AN 1/30 or as

Segment: REF Reference Identification (MT=Meter Type)

Position: 030
Loop: PTD
Level: Detail
Usage: Optional
Max Use: 20

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
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:** 

PA Use:	Optional - Required if providing Historical Interval Usage by Meter; otherwise, not used.
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	REF*MT*KHMON

#### **Data Element Summary**

Must Use	Des. REF01	Element 128	Name Reference Identification Qualifier Code qualifying the Reference Identification		X12 Attributes M ID 2/3	
			MT	Meter Type		
				Billing Data Types and Interval Frequency	iencies	
Must Use REF02		EF02 127	Reference Ident Reference informatio Identification Qualific	n as defined for a particular Transaction Set or as spe	X AN 1/30 ecified by the Reference	
			When REF01 is MT, the meter type is expressed as a five-character two characters are the type of consumption, the last three charactering interval. "COMBO" is used for a meter that records n measurement. Valid values can be a combination of the following			

Type of	Consumption	Metering In	terval
K1	Kilowatt Demand	Nnn	Number of minutes from 001 to 999
K2	Kilovolt Amperes Reactive Demand	ANN	Annual
K3	Kilovolt Amperes Reactive Hour	BIA	Bi-annual
K4	Kilovolt Amperes	BIM	Bi-monthly
K5	Kilovolt Amperes Reactive	DAY	Daily
KH	Kilowatt Hour	MON	Monthly
T9	Thousand Kilowatt Hours	QTR	Quarterly

#### For Example:

KHMON Kilowatt Hours Per Month

K1015 Kilowatt Demand per 15 minute interval

#### **Other Valid Codes**

COMBO This code is used to indicate that the meter has multiple measurements, e.g., one

meter that measures both kWh and Demand.

Segment: REF Reference Identification (NH=LDC Rate Class)

Position: 030
Loop: PTD
Level: Detail
Usage: Optional
Max Use: 20

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
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:** 

PA Use: Optional - Required if providing Historical Interval Usage by Meter; otherwise, not used				
NJ Use: Same as PA; see Notes section for utility support				
DE Use:	N/A			
MD Use: Same as PA; see Notes section for utility support				
Example:	REF*NH*GS1			

Must Use	Ref. <u>Des.</u> REF01	Data Element 128		entification Qualifier the Reference Identification	Att M	ributes ID 2/3
			NH	LDC Rate Code		
Must Use	REF02	127	Reference Id Reference inform Identification Qu	nation as defined for a particular Transaction	X Set or as specified	AN 1/30 by the Reference

QTY Quantity **Segment:** 

**Position:** 110 Loop: QTY Level: Detail Usage: Optional

Max Use:

**Purpose:** To specify quantity information

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

Only one of QTY02 or QTY04 may be present.

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

**Comments:** 

Notes:	Each QTY/MEA/DTM loop conveys consumption information about one metering interval.
PA Use:	Optional - Required if providing Historical Interval Usage by Meter; otherwise, not used.
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	QTY*QD*5210*KH

	D.C	D 4	Data Eleme	nt Summar y
Must Use	Ref. <u>Des.</u> QTY01	Data <u>Element</u> 673	Name Quantity Qualifier Code specifying the type	Attributes M ID 2/2
			KA	Estimated Quantity Delivered
			KA	Used when the quantity delivered is an estimated quantity.
			QD	Actual Quantity Delivered
				Used when the quantity delivered is an actual quantity.
			87	Actual Quantity Received (Net Metering)
				Used when the net generation quantity received is actual.
			9H	Estimated Quantity Received (Net Metering)
				Used when the net generation quantity received is
				estimated.
Must Use	QTY02	380	<b>Quantity</b> Numeric value of quantity	X R 1/15
Must Use	QTY03	355	Unit or Basis for M Code specifying the units has been taken	easurement Code M ID 2/2 in which a value is being expressed, or manner in which a measurement
			K1	Kilowatt Demand (KW)
				Represents potential power load measured at predetermined intervals
			K2	Kilovolt Amperes Reactive Demand (kVAR)
			K3	Reactive power that must be supplied for specific types of customer's equipment; billable when kilowatt demand usage meets or exceeds a defined parameter Kilovolt Amperes Reactive Hour (kVARH)
				Represents actual electricity equivalent to kilowatt hours; billable when usage meets or exceeds defined parameters
			K4	Kilovolt Amperes (KVA)
			KH	Kilowatt Hour

Segment: DTM Date/Time Reference (582=Report Report)

Position: 210
Loop: QTY
Level: Detail
Usage: Optional
Max Use: 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes:** 1 At least one of DTM02 DTM03 or DTM05 is required.

If DTM04 is present, then DTM03 is required.

4 If either DTM05 or DTM06 is present, then the other is required.

#### **Semantic Notes:**

#### **Comments:**

Notes:	End date and time of the period for which the quantity is provided. Time will include			
	zone. Each interval must be explicitly labeled with the date and time.			
PA Use:	Optional - Required if providing Historical Interval Usage by Meter; otherwise, not used.			
NJ Use:	Same as PA; see Notes section for utility support			
DE Use:	N/A			
MD Use:	Same as PA; see Notes section for utility support			
Example:	DTM*582*20080115*1500*ET			

#### **Data Element Summary**

Must Use	Ref. <u>Des.</u> DTM01	Data <u>Element</u> 374	Name Date/Time Qu Code specifying ty 582	valifier Upe of date or time, or both date and time Report Period	<u>A1</u> M	tributes ID 3/3
				The date/time of the end of the inter-	val.	
Must Use	DTM02	373	<b>Date</b> Date expressed as	CCYYMMDD	X	DT 8/8
Must Use	DTM03	337	HHMMSSDD, wh	24-hour clock time as follows: HHMM, or HHMMS: nere H = hours (00-23), M = minutes (00-59), S = integrals; decimal seconds are expressed as follows: D = t	ger secoi	nds (00-59) and
			HHMM forma	t		
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 (FG=Scheduling Determinants)

Position: 010 Loop: PTD Level: Detail Usage: Mandatory

Max Use:

**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:	The state of the s				
	Obligation (a.k.a. Load Responsibility) and Transmission Obligation for PJM customers.				
PA Use:	Required				
NJ Use:	Same as PA; see Notes section for utility support				
DE Use:	N/A				
MD Use:	Same as PA; see Notes section for utility support				
Examples:	PTD*FG				

#### **Data Element Summary**

	Ref.	Data		
	Des.	<b>Element</b>	<u>Name</u>	<u>Attributes</u>
Must Use	PTD01	521	Product Transfer Type Code	M ID 2/2

Code identifying the type of product transfer

FG Flowing Gas Information

Scheduling Determinants: This loop will provide

information required by PJM.

Segment: **REF** Reference Identification (LF=Loss Factor)

Position: 030 Loop: PTD Level: Detail Usage: Optional Max Use: 20

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
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:** 

PA Use:	Required for First Energy Companies; Optional for others
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	Not Used
MD Use:	Same as PA; see Notes section for utility support
Example:	REF*LF*2

	Ref.	Data		·		
	Des.	<b>Element</b>	<u>Name</u>		<u>X12</u>	2 Attributes
Must Use	REF01	128		e Identification Qualifier ring the Reference Identification	M	ID 2/3
			LF	Load Planning Number		
				Loss Factor		
Must Use	REF02	127	Reference	<b>Identification</b>	X	AN 1/30
			Reference in Identification	formation as defined for a particular Transaction Set or as spon Qualifier	ecified l	by the Reference

Segment: REF Reference Identification (LO=Load Profile)

Position: 030 Loop: PTD Level: Detail Usage: Optional Max Use: 20

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
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:**

PA Use:	Required
	<b>Note</b> : PECO provides this field in the PTD*RT loop rather than in this loop for AMI metered accounts with more than one rate (service point).
NI TI	<u> </u>
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	REF*LO*GS

	Ref.	Data				
	Des.	<b>Element</b>	<b>Name</b>		X12	2 Attributes
Must Use	REF01	128	Reference I	dentification Qualifier	M	ID 2/3
			Code qualifying	g the Reference Identification		
			LO	Load Planning Number		
				Load profile		
Must Use	REF02	127	Reference I	dentification	X	AN 1/30
			Reference infor Identification O	mation as defined for a particular Transaction Set or as spe	cified l	by the Reference

Segment: REF Reference Identification (NH=LDC Rate Class)

Position: 030
Loop: PTD
Level: Detail
Usage: Optional
Max Use: 20

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
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:** 

PA Use:	Required  Note: PECO provides this field in the PTD*RT loop rather than in this loop for AMI metered accounts with more than one rate (service point).
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	REF*NH*GS1

Must Use	Ref. <u>Des.</u> REF01	Data Element 128		entification Qualifier the Reference Identification	Att M	ributes ID 2/3
			NH	LDC Rate Code		
Must Use	REF02	127	Reference Id Reference inform Identification Qu	nation as defined for a particular Transaction Set or as spe	X ecified l	AN 1/30 by the Reference

Segment: REF Reference Identification (PR=LDC Rate Sub-Class)

Position: 030
Loop: PTD
Level: Detail
Usage: Optional
Max Use: 20

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
 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:** 

Must Use

REF02

127

PA Use:	Conditional: If maintained by utility, must be sent for each meter that is used for billing purposes. This segment must also be sent when account has UNMETERED services available for generation service.  Note: PECO provides this field in the PTD*RT loop rather than in this loop for AMI metered accounts with more than one rate (service point).
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Not Used
Example:	REF*PR*123

#### **Data Element Summary**

Must Use	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128		Identification Qualifier ng the Reference Identification	Att M	ributes ID 2/3
			PR	Price Quote Number LDC Rate Subclass – Used to provide classification of a rate.	furth	er

Reference Identification X AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Segment: REF Reference Identification (BF=LDC Bill Cycle)

Position: 030
Loop: PTD
Level: Detail
Usage: Optional
Max Use: 20

**Purpose:** To specify identifying information

Syntax Notes: 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
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:** 

PA Use:	Required
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	REF*BF*15

Must Use	Ref. <u>Des.</u> REF01	Data Element 128		lentification Qualifier the Reference Identification	Att M	ributes ID 2/3
			$\mathbf{BF}$	LDC Bill Cycle		
Must Use	REF02	127	Reference Information Quantification Quantification	nation as defined for a particular Transaction Set or as s	X specified l	AN 1/30 by the Reference

Segment: REF Reference Identification (SV=Service Voltage)

Position: 030
Loop: PTD
Level: Detail
Usage: Optional
Max Use: 20

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
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:** 

PA Use:	Required for First Energy Companies; Optional for others
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	Not Used
MD Use:	Same as PA; see Notes section for utility support
Example:	REF*SV*SECONDARY

#### **Data Element Summary**

	Ref. <u>Des.</u>	Data <u>Element</u>	Name		Att	ributes
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification		M	ID 2/3
			SV	Service Voltage		
Must Use	REF02	127	Reference Id	entification	X	AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

PRIMARY

SECONDARY
Actual service voltage transmission value (Ex: 34.5kV)

Segment:  ${\bf REF}$  Reference Identification (KY=Special Meter Configuration)

Position: 030
Loop: PTD
Level: Detail
Usage: Optional
Max Use: 20

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
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:** 

Comments	
PA Use:	Required when special meter configuration is present on an account.
	PPLEU: supports
	First Energy & PECO: must support NLT 6/19/2013
	Duquesne: will support NLT 1/31/2014
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	Not Used
MD Use:	Same as PA
	BGE: est. 4Q 2014
	PHI (Delmarva & PEPCO): with new CIS
	Potomac Edison (FE): in production
Example:	REF*KY* NSUN*0000026

#### **Data Element Summary**

			Data Elen	nent Summary		
	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		$\mathbf{X}1\mathbf{Z}$	<b>2 Attributes</b>
Must Use	REF01	128	Reference Identif	ication Qualifier	M	ID 2/3
			Code qualifying th	e Reference Identification		
			KY	Site Specific Procedures, Terms, and	Condi	tions
				Special Meter Configuration		
Must Use	REF02	127	Reference Identif	1	X	AN 1/30
				tion as defined for a particular Transaction eference Identification Qualifier	on Set	or as
			ASUN	Net Metering Solar		
			AWIN	Net Metering Wind		
			AHYD	Net Metering Hydro		
			ABIO	Net Metering Biomass		
			AWST	Net Metering Waste		
			ACHP	Net Metering Combined Heat and Pov	wer	
			AMLT	Net Metering Multiple Different Sour	ces	
			NSUN	Non-Net Metering Solar		
			NWIN	Non-Net Metering Wind		
			NHYD	Non-Net Metering Hydro		
			NBIO	Non-Net Metering Biomass		
			NWST	Non-Net Metering Waste		
			NCHP	Non-Net Metering Combined Heat an	d Pov	ver
			NFOS	Non-Net Metering Fossil Fuel		
			NMLT	Non-Net Metering Multiple Different	Sourc	ees
			NETMETER	Net Meter (Used for EDCs who will r specific type of net meter)	ot rep	ort the
Optional	REF03	352	Description		X	AN 1/80

A free-form description to clarify the related data elements and their content

# March 17, 2014 Version 6.1

PPLEU: Used for the output rating of the generation equipment reporting in KW and reflects the maximum generation the equipment can produce at any one time

Segment: QTY Quantity (KC=Peak Load Contribution)

Position: 110
Loop: QTY
Level: Detail
Usage: Optional
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**:

Each QTY/MEA/DTM loop conveys consumption information about one metering period.
Required - The QTY/DTM loop may be sent twice depending on the time of year the Historical Usage is being provided. (PLC is effective June 1 - May 31) One iteration will show the current PLC and a second iteration will show the PLC that will be effective in the period defined in the DTM segment. Currently the PA EDCs change the PLC effective June 1st. Once the EDCs are aware of what the next effective PLC will be (typically in December) they should begin providing it on transactions.  For example, in February 2010 the PLC values would be reported as: QTY*KC*476*K1 DTM*007****RD8*20090601-20100531 QTY*KC*450*K1 DTM*007****RD8*20100601-20110531
Whereas in September 2010 the PLC value would include only one loop because the following year's PLC is undetermined:  QTY*KC*450*K1  DTM*007****RD8*20100601-20110531
Required for PJM participants; see Notes section for utility support. This will be the Peak Load Contribution in effect when the transaction is requested.  NJ Note: PSE&G sends Capacity Obligation to PJM.
N/A
Required for PJM participants; see Notes section for utility support
QTY*KC*752*K1

#### **Data Element Summary**

			Dutu Liting	one summary
Must Use	Ref. <u>Des.</u> QTY01	Data Element 673	Name Quantity Qualifier Code specifying the type	Attributes M ID 2/2 of quantity
			KC	Net Quantity Decrease
				Peak Load Contribution: Peak load contributions provided to PJM for Installed Capacity calculation (coincident with PJM Peak).
Must Use	QTY02	380	<b>Quantity</b> Numeric value of quantity	X R 1/15
Must Use	QTY03	355	Unit or Basis for M Code specifying the units has been taken	Teasurement Code M ID 2/2 in which a value is being expressed, or manner in which a measurement
			K1	Kilowatt Demand
				Represents notential nower load measured at

Represents potential power load measured at

predetermined intervals

Segment: DTM Date/Time Reference (007=PLC Effective Date)

Position: 210
Loop: QTY
Level: Detail
Usage: Optional
Max Use: 10

**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:**

<b>Comments:</b>	
Comments: PA Use:	Required for PJM Participants  The QTY/DTM loop may be sent twice depending on the time of year the Historical Usage is being provided. (PLC is effective June 1 - May 31) One iteration will show the current PLC and a second iteration will show the PLC that will be effective in the period defined in the DTM segment. Currently the PA EDCs change the PLC effective June 1 st. Once the EDCs are aware of what the next effective PLC will be (typically in December) they should begin providing it on transactions.  For example, in February 2010 the PLC values would be reported as: QTY*KC*476*K1 DTM*007****RD8*20090601-20100531
NJ Use: DE Use: MD Use:	QTY*KC*450*K1 DTM*007****RD8*20100601-20110531  Whereas in September 2010 the PLC value would include only one loop because the following year's PLC is undetermined: QTY*KC*450*K1 DTM*007****RD8*20100601-20110531  Not Used Not Used Not Used
Example:	DTM*007****RD8*20070601-20080531

	Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>	·	Att	<u>ributes</u>
Must Use	DTM01	374	Date/Time Qualifie Code specifying typ	er e of date, or time, or both date and time	M	ID 3/3
Must Use	DTM05	1250	007  Date/Time Period Fo	Effective PLC Effective Date	X	ID 2/3
Wast Osc	21,100	1200		date format, time format, or date and tin Range of Dates Expressed in Format CCYYMMDD-CCYYMMDD		
Must Use	DTM06	1251	<b>Date/Time Period</b> Expressed as CCYY	MMDD-CCYYMMDD	X	AN 1/35

Segment: QTY Quantity (KZ=Network Service Peak Load)

Position: 110
Loop: QTY
Level: Detail
Usage: Optional

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:** 

Comments.	
Notes:	Each QTY/MEA/DTM loop conveys consumption information about one metering interval.
PA Use:	Required - The QTY/DTM loop may be sent twice when the Utility is providing both the current NSPL and the NSPL that will be effective for a subsequent period. This will occur for short period of time between when the future value is sent via the 814C and the actual date the future value takes effect.
	For example, you may receive either two loops:
	QTY*KZ*476*K1
	DTM*007****RD8*20100101-20101231
	QTY*KZ*450*K1
	DTM*007****RD8*20110101-20111231
	Or just one:
	QTY*KZ*450*K1
	DTM*007****RD8*20110101-20111231
NJ Use:	Required for PJM participants; see Notes section for utility support. This will be the Network
	Service Peak Load in effect when the transaction is requested.
	NJ Note: PSE&G sends Capacity Obligation to PJM.
DE Use:	N/A
MD Use:	Required for PJM participants, see Notes section for utility support
Example:	QTY*KZ*752*K1

			Data Eleme	int Summary
Must Use	Ref. <u>Des.</u> QTY01	Data Element 673	Name Quantity Qualifier Code specifying the type	
			KZ	Corrective Action Requests - Written
				Network Service Peak Load: Customer's peak load contribution provided to PJM for the Transmission Service calculation (coincident with LDC peak).
Must Use	QTY02	380	<b>Quantity</b> Numeric value of quantity	X R 1/15
Must Use	QTY03	355	Unit or Basis for M Code specifying the units has been taken	<b>Teasurement Code</b> M ID 2/2 s in which a value is being expressed, or manner in which a measurement
			K1	Kilowatt Demand
				Represents potential power load measured at predetermined intervals

Segment: **DTM** Date/Time Reference (007=NSPL Effective Date)

Position: 210
Loop: QTY
Level: Detail
Usage: Optional
Max Use: 10

**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:	
PA Use:	Required for PJM Participants
	NSPL is for January 1 - December 31
	The QTY/DTM loop may be sent twice when the Utility is providing both the current NSPL and the NSPL that will be effective for a subsequent period. This will occur for short period of time between when the future value is sent via the 814C and the effective date of the future value.
	For example, you may receive either two loops: QTY*KZ*476*K1
	DTM*007****RD8*20100101-20101231
	QTY*KZ*450*K1
	DTM*007****RD8*20110101-20111231
	Or just one:
	QTY*KZ*450*K1
	DTM*007****RD8*20110101-20111231
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Not Used
Example:	DTM*007****RD8*20070601-20080531

	Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>		Att	<u>ributes</u>
Must Use	DTM01	374	Date/Time Qualified Code specifying type	er e of date, or time, or both date and time	M	ID 3/3
			007	Effective NSPL Effective Date		
Must Use	DTM05	1250	<b>Date/Time Period F</b> Code indicating the	format Qualifier date format, time format, or date and time	X ne for	ID 2/3 rmat
			RD8	Range of Dates Expressed in Format CCYYMMDD-CCYYMMDD		
Must Use	DTM06	1251	Date/Time Period Expressed as CCYY	MMDD-CCYYMMDD	X	AN 1/35

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.

PA Use:	Required
NJ Use:	Same as PA; see Notes section for utility support
DE Use:	N/A
MD Use:	Same as PA; see Notes section for utility support
Example:	SE*23*000000001

Must Use	Ref. Des. SE01	Data <u>Element</u> 96	Name Number of Included Segments Total number of segments included in a transaction set including ST and S	M	ributes N0 1/10
Must Use	SE02	329	<b>Transaction Set Control Number</b> Identifying control number that must be unique within the transaction set by the originator for a transaction set	M function	AN 4/9 nal group assigned

## **Example: Historical Interval Usage by Account**

### Heading:

BPT*52*2008070112300001*20080701*C1	Transaction Set Purpose Code: <b>52</b> , <i>Response to Historical Inquiry</i> Reference Identification: <b>2008070112300001</b> , Transaction Date: <b>20080701</b> , Report Type Code: <b>C1</b> , <i>Interval Usage</i>
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*JANE DOE	Customer name
REF*12*519703123457	LDC Account Number
REF*45*451105687500	Old LDC Account Number

#### **Detail:**

Segment Contents	Element Description
PTD*SU	Summary Loop for kwh (QTY, DTM, DTM for each month)
QTY*QD*52110*KH	Quantity (kwh)
DTM*150*20080529	Service Period Start
DTM*151*20080630	Service Period End
QTY*QD*34510*KH	Quantity (kwh)
DTM*150*20080701	Service Period Start
DTM*151*20080731	Service Period End

PTD*BQ	Summary loop for energy (one for each month)
DTM*150*20080529	Service Period Start
DTM*151*20080630	Service Period End
REF*MT*KH060	Meter Type
QTY*QD*112*KH	Consumption
DTM*582*20080529*0100*ED	End date and time of the period for which the quantity is provided.
QTY*QD*128*KH	Consumption
DTM*582*20080529*0200*ED	End date and time of the period for which the quantity is provided.
QTY*QD*216*KH	Consumption
DTM*582*20080529*0300*ED	End date and time of the period for which the quantity is provided.
Continued on until the end of the	
period specified below	
QTY*QD*789*KH	Consumption
DTM*582*20080630*2300*ED	End date and time of the period for which the quantity is provided.
QTY*QD*730*KH	Consumption
DTM*582*20080630*2359*ED	End date and time of the period for which the quantity is provided.
PTD*BQ	Summary loop for energy (one for each month)
DTM*150*20080701	Service Period Start
DTM*151*20080731	Service Period End
REF*MT*KH060	Meter Type
OTV*07*102*I/H	
QTY*87*102*KH	Consumption – Example shows net generation of 102 kwh
DTM*582*20080701*0100*ED	End date and time of the period for which the quantity is provided.
DTM*582*20080701*0100*ED QTY*QD*233*KH	End date and time of the period for which the quantity is provided.  Consumption
DTM*582*20080701*0100*ED QTY*QD*233*KH DTM*582*20080701*0200*ED	End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.
DTM*582*20080701*0100*ED QTY*QD*233*KH DTM*582*20080701*0200*ED QTY*QD*416*KH	End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.  Consumption
DTM*582*20080701*0100*ED QTY*QD*233*KH DTM*582*20080701*0200*ED QTY*QD*416*KH DTM*582*20080701*0300*ED	End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.
DTM*582*20080701*0100*ED QTY*QD*233*KH DTM*582*20080701*0200*ED QTY*QD*416*KH DTM*582*20080701*0300*EDContinued on until the end of the	End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.  Consumption
DTM*582*20080701*0100*ED  QTY*QD*233*KH  DTM*582*20080701*0200*ED  QTY*QD*416*KH  DTM*582*20080701*0300*ED Continued on until the end of the period specified below	End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.
DTM*582*20080701*0100*ED  QTY*QD*233*KH  DTM*582*20080701*0200*ED  QTY*QD*416*KH  DTM*582*20080701*0300*ED Continued on until the end of the period specified below  QTY*QD*781*KH	End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.  Consumption  Consumption
DTM*582*20080701*0100*ED  QTY*QD*233*KH  DTM*582*20080701*0200*ED  QTY*QD*416*KH  DTM*582*20080701*0300*ED Continued on until the end of the period specified below  QTY*QD*781*KH  DTM*582*20080731*2300*ED	End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.
DTM*582*20080701*0100*ED  QTY*QD*233*KH  DTM*582*20080701*0200*ED  QTY*QD*416*KH  DTM*582*20080701*0300*ED Continued on until the end of the period specified below  QTY*QD*781*KH	End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.  Consumption  Consumption

PTD*FG	Scheduling Determinants Loop
REF*BF*01	Bill Cycle
REF*KY*ASUN	Special Meter Configuration (PPL sends, other PA EDCs
	implementing in 2013/14)
REF*LF*2	Loss Factor (FE Only; optional others)
REF*LO*RS	Load Profile [Optional segment]
REF*NH*RESNH	LDC Rate Code
REF*PR*RESNH7187	LDC Rate Sub-Class
REF*SV*SECONDARY	Service Voltage (FE Only; optional others)
QTY*KC*752*K1	Peak Load Contribution
QTY*KZ*752*K1	Network Service Peak Load

# **Example: Historical Interval Usage by Meter** Currently no utilities support HI by meter.

## Example: Pennsylvania & Maryland Net Metering / Customer Generation

Historical Interval Usage Summarized by Account – with Net Metering

BPT*52*2012070112300001*20120701*C1	Transaction Set Purpose Code: <b>52</b> , Response to Historical Inquiry
	Reference Identification: 2012070112300001, Transaction Date:
	20120701, Report Type Code: C1, Interval Usage
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*JANE DOE	Customer name
REF*12*519703123457	LDC Account Number
REF*45*451105687500	Old LDC Account Number
PTD*SU	Summary Loop for kwh (QTY, DTM, DTM for each month)
QTY*QD*52110*KH	Net Consumption Quantity (kwh)
DTM*150*20120529	Service Period Start
DTM*151*20120630	Service Period End
QTY*87*34510*KH	Net Generation Quantity (kwh)
DTM*150*20120701	Service Period Start
DTM*151*20120731	Service Period End
PTD*BQ	Summary loop for KH (one for each month)
DTM*150*20120529	Service Period Start
DTM*151*20120630	Service Period End
REF*MT*KH060	Meter Type
QTY*QD*112*KH	Consumption
DTM*582*20120529*0100*ED	End date and time of the period for which the quantity is provided.
QTY*87*128*KH	Generation
DTM*582*20120529*0200*ED	End date and time of the period for which the quantity is provided.
QTY*QD*216*KH	Consumption
DTM*582*20120529*0300*ED	End date and time of the period for which the quantity is provided.
Continued on until the end of the period	
specified below	
QTY*QD*789*KH	Consumption
DTM*582*20120630*2300*ED	End date and time of the period for which the quantity is provided.
QTY*QD*730*KH	Consumption
DTM*582*20120630*2359*ED	End date and time of the period for which the quantity is provided.
PTD*BQ	Summary loop for KH (one for each month)
DTM*150*20120701	Service Period Start
DTM*151*20120731	Service Period End
0(711' , ' 11 , 111 (4010)	72

REF*MT*KH060 QTY*QD*102*KH Consumption DTM*582*20120701*0100*ED End date and time of the period for which the quantity is provided. QTY*87*233*KH Generation DTM*582*20120701*0200*ED End date and time of the period for which the quantity is provided. QTY*QD*416*KH Consumption DTM*582*20120701*0300*ED End date and time of the period for which the quantity is provided. Continued on until the end of the period specified below QTY*QD*781*KH DTM*582*20120731*2300*ED End date and time of the period for which the quantity is provided. QTY*QD*700*KH Consumption DTM*582*20120731*2300*ED End date and time of the period for which the quantity is provided. QTY*QD*700*KH Consumption DTM*582*20120731*2359*ED End date and time of the period for which the quantity is provided. PTD*FG Scheduling Determinants Loop REF*BF*01 REF*KY*ASUN Special Meter Configuration (PPL sends, other PA EDCs implementing in 2013/14) REF*LF*2 Loss Factor (FE Only; optional others) REF*LO*RS Load Profile REF*NH*RESNH LDC Rate Code REF*PR*RESNH7187 LDC Rate Code REF*PR*RESNH7187 LDC Rate Sub-Class REF*SV*SECONDARY QTY*KZ*752*K1 Network Service Peak Load		version 6.1
DTM*582*20120701*0100*ED  End date and time of the period for which the quantity is provided.  QTY*87*233*KH  Generation  DTM*582*20120701*0200*ED  End date and time of the period for which the quantity is provided.  QTY*QD*416*KH  Consumption  DTM*582*20120701*0300*ED  End date and time of the period for which the quantity is provided.  Continued on until the end of the period specified below  QTY*QD*781*KH  Consumption  DTM*582*20120731*2300*ED  End date and time of the period for which the quantity is provided.  QTY*QD*700*KH  Consumption  DTM*582*20120731*2359*ED  End date and time of the period for which the quantity is provided.  PTD*FG  Scheduling Determinants Loop  REF*BF*01  REF*KY*ASUN  Special Meter Configuration (PPL sends, other PA EDCs implementing in 2013/14)  REF*LO*RS  REF*LO*RS  REF*LO*RS  Load Profile  REF*NH*RESNH  LDC Rate Code  REF*PR*RESNH7187  LDC Rate Code  REF*PR*RESNH7187  LDC Rate Sub-Class  REF*SV*SECONDARY  Generation  End date and time of the period for which the quantity is provided.  Consumption  DTM*582*20120731*2359*ED  End date and time of the period for which the quantity is provided.  Consumption  DTM*582*20120731*2359*ED  End date and time of the period for which the quantity is provided.  PTD*FG  Scheduling Determinants Loop  REF*BF*01  REF*BF*01  REF*SV*SEONDARY  Service Voltage (FE Only; optional others)  QTY*KC*752*K1  Peak Load Contribution	REF*MT*KH060	Meter Type
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DTM*582*20120701*0200*ED  QTY*QD*416*KH  Consumption  End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.  End date and time of the period for which the quantity is provided.  End date and time of the period for which the quantity is provided.  Consumption  DTM*582*20120731*2300*ED  End date and time of the period for which the quantity is provided.  QTY*QD*700*KH  Consumption  DTM*582*20120731*2359*ED  End date and time of the period for which the quantity is provided.  PTD*FG  Scheduling Determinants Loop  REF*BF*01  Bill Cycle  REF*KY*ASUN  Special Meter Configuration (PPL sends, other PA EDCs implementing in 2013/14)  REF*LF*2  Loss Factor (FE Only; optional others)  REF*LO*RS  REF*NH*RESNH  LDC Rate Code  REF*PR*RESNH7187  LDC Rate Sub-Class  REF*SV*SECONDARY  Service Voltage (FE Only; optional others)  QTY*KC*752*K1  Peak Load Contribution	DTM*582*20120701*0100*ED	End date and time of the period for which the quantity is provided.
QTY*QD*416*KH  DTM*582*20120701*0300*ED Continued on until the end of the period specified below  QTY*QD*781*KH  DTM*582*20120731*2300*ED  End date and time of the period for which the quantity is provided.  QTY*QD*780*KH  Consumption  DTM*582*20120731*2359*ED  End date and time of the period for which the quantity is provided.  QTY*QD*700*KH  Consumption  DTM*582*20120731*2359*ED  End date and time of the period for which the quantity is provided.  PTD*FG  Scheduling Determinants Loop  REF*BF*01  Bill Cycle  REF*KY*ASUN  Special Meter Configuration (PPL sends, other PA EDCs implementing in 2013/14)  REF*LF*2  Loss Factor (FE Only; optional others)  REF*LO*RS  Load Profile  REF*NH*RESNH  LDC Rate Code  REF*PR*RESNH7187  LDC Rate Sub-Class  REF*SV*SECONDARY  Service Voltage (FE Only; optional others)  QTY*KC*752*K1  Peak Load Contribution	QTY*87*233*KH	Generation
DTM*582*20120701*0300*ED Continued on until the end of the period specified below  QTY*QD*781*KH  Consumption  DTM*582*20120731*2300*ED  End date and time of the period for which the quantity is provided.  QTY*QD*700*KH  Consumption  DTM*582*20120731*2359*ED  End date and time of the period for which the quantity is provided.  PTD*FG  Scheduling Determinants Loop  REF*BF*01  REF*KY*ASUN  Special Meter Configuration (PPL sends, other PA EDCs implementing in 2013/14)  REF*LF*2  Loss Factor (FE Only; optional others)  REF*NH*RESNH  LDC Rate Code  REF*PR*RESNH7187  LDC Rate Sub-Class  REF*SV*SECONDARY  QTY*KC*752*K1  Peak Load Contribution	DTM*582*20120701*0200*ED	End date and time of the period for which the quantity is provided.
Continued on until the end of the period specified below  QTY*QD*781*KH  Consumption  DTM*582*20120731*2300*ED  End date and time of the period for which the quantity is provided.  QTY*QD*700*KH  Consumption  DTM*582*20120731*2359*ED  End date and time of the period for which the quantity is provided.  PTD*FG  Scheduling Determinants Loop  REF*BF*01  Bill Cycle  REF*KY*ASUN  Special Meter Configuration (PPL sends, other PA EDCs implementing in 2013/14)  REF*LF*2  Loss Factor (FE Only; optional others)  REF*LO*RS  Load Profile  REF*NH*RESNH  LDC Rate Code  REF*PR*RESNH7187  LDC Rate Sub-Class  REF*SV*SECONDARY  QTY*KC*752*K1  Peak Load Contribution	QTY*QD*416*KH	Consumption
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DTM*582*20120731*2300*ED  QTY*QD*700*KH  Consumption  DTM*582*20120731*2359*ED  End date and time of the period for which the quantity is provided.  PTD*FG  REF*BF*01  REF*KY*ASUN  Special Meter Configuration (PPL sends, other PA EDCs implementing in 2013/14)  REF*LO*RS  REF*LO*RS  REF*NH*RESNH  LOad Profile  REF*PR*RESNH7187  LDC Rate Code  REF*SV*SECONDARY  QTY*KC*752*K1  End date and time of the period for which the quantity is provided.  Consumption  Consumption  Load time of the period for which the quantity is provided.  Consumption  Consumption  Load time of the period for which the quantity is provided.  Consumption  Consumption  Load time of the period for which the quantity is provided.  Consumption  Consumption  Load time of the period for which the quantity is provided.  Consumption  Load time of the period for which the quantity is provided.  End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.  Consumption  Load time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.  Consumption  End date and time of the period for which the quantity is provided.  End date and time of the period for which the quantity is provided.  End date and time of the period for which the quantity is provided.  End date and time of the period for which the quantity is provided.  End date and time of the period for which the quantity is provided.  End date and time of the period for which the quantity is provided.	*	
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DTM*582*20120731*2359*ED  End date and time of the period for which the quantity is provided.  PTD*FG  Scheduling Determinants Loop  REF*BF*01  Bill Cycle  REF*KY*ASUN  Special Meter Configuration (PPL sends, other PA EDCs implementing in 2013/14)  REF*LF*2  Loss Factor (FE Only; optional others)  REF*LO*RS  REF*NH*RESNH  LDC Rate Code  REF*PR*RESNH7187  LDC Rate Sub-Class  REF*SV*SECONDARY  Service Voltage (FE Only; optional others)  QTY*KC*752*K1  Peak Load Contribution	DTM*582*20120731*2300*ED	End date and time of the period for which the quantity is provided.
PTD*FGScheduling Determinants LoopREF*BF*01Bill CycleREF*KY*ASUNSpecial Meter Configuration (PPL sends, other PA EDCs implementing in 2013/14)REF*LF*2Loss Factor (FE Only; optional others)REF*LO*RSLoad ProfileREF*NH*RESNHLDC Rate CodeREF*PR*RESNH7187LDC Rate Sub-ClassREF*SV*SECONDARYService Voltage (FE Only; optional others)QTY*KC*752*K1Peak Load Contribution	` `	Consumption
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implementing in 2013/14)  REF*LF*2 Loss Factor (FE Only; optional others)  REF*LO*RS Load Profile  REF*NH*RESNH LDC Rate Code  REF*PR*RESNH7187 LDC Rate Sub-Class  REF*SV*SECONDARY Service Voltage (FE Only; optional others)  QTY*KC*752*K1 Peak Load Contribution	REF*BF*01	Bill Cycle
REF*LF*2 Loss Factor (FE Only; optional others)  REF*LO*RS Load Profile  REF*NH*RESNH LDC Rate Code  REF*PR*RESNH7187 LDC Rate Sub-Class  REF*SV*SECONDARY Service Voltage (FE Only; optional others)  QTY*KC*752*K1 Peak Load Contribution	REF*KY*ASUN	
REF*LO*RS     Load Profile     REF*NH*RESNH     LDC Rate Code     REF*PR*RESNH7187     LDC Rate Sub-Class     REF*SV*SECONDARY     Service Voltage (FE Only; optional others)     QTY*KC*752*K1     Peak Load Contribution		implementing in 2013/14)
REF*NH*RESNH  REF*PR*RESNH7187  LDC Rate Sub-Class  REF*SV*SECONDARY  Service Voltage (FE Only; optional others)  QTY*KC*752*K1  Peak Load Contribution	REF*LF*2	Loss Factor (FE Only; optional others)
REF*PR*RESNH7187 LDC Rate Sub-Class REF*SV*SECONDARY Service Voltage (FE Only; optional others) QTY*KC*752*K1 Peak Load Contribution		Load Profile
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QTY*KC*752*K1 Peak Load Contribution	REF*PR*RESNH7187	
	REF*SV*SECONDARY	
QTY*KZ*752*K1 Network Service Peak Load	QTY*KC*752*K1	Peak Load Contribution
	QTY*KZ*752*K1	Network Service Peak Load