**Pennsylvania**

**New Jersey**

**Delaware**

Maryland

**Implementation**

**Guideline**

For

**Electronic Data Interchange**

**TRANSACTION SET**

**867**

**Historical Interval Usage**

**Ver/Rel 004010**

#

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|  |  | Summary of Changes |
| March 15, 2008Version 0.1D |  | Initial Release for PSEG NJ Change Control. |
| August 20, 2008Version 0.1.5D |  | Incorporate changes for PA |
| October 2, 2008Version 0.1.6D |  | Remove PECO from PA Notes section |
| August 8, 2009Version 0.1.7D |  | Incorporate PA Change Control 056 (PPL field use) |
| January 24, 2010Version 1.0 |  | This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware. |
| November 4, 2010Version 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, 2011Version 2.0 |  | This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware. |
| February 16, 2012Version 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 |  | * Moving to v6.0 to align versions across all transaction sets
* Cleaned up references to Allegheny and APS throughout document
* Incorporate PA Change Control 087 (add DTM segments to be used with QTY\*KC and QTY\*KZ to denote current and future values)
* Incorporate PA Change Control 095 (REF03 in REF\*KY)
* Incorporate PA Change Control 101 (remove AMT\*LD from request; rescinds CC 58)
* Incorporate PA Change Control 102 (increase REF\*BF length in Data Dictionary)
* Incorporate PA Change Control 103 (uniform net metering consumption reporting)
* Incorporate MD Change Control 015 (add 867HI support for Maryland)
 |
| March 17, 2014Version 6.1 |  | * Incorporate PA Change Control 109 (clarify use in PTD\*BQ gray box)
* Incorporate PA Change Control 110 (clarify notes section for PECO
* Incorporate PA Change Control 114 (add REF\*PR to PTD\*FG & PTD\*RT loops)
* Incorporate PA Change Control 115 (add PTD\*RT loop for PECO)
* Incorporate MD Change Control 026 (PHI new CIS; changes to HU/HI)
* Incorporate MD Change Control 028 (BGE support of 867IU)
* Incorporate MD Change Control 029 (uniform net meter data reporting)
* Incorporate MD Change Control 030 (Net Meter Indicator in REF\*KY)
* Incorporate NJ Change Control Electric 019 (ACE new CIS: changes to 867HU/HI)
* Incorporate NJ Change Control Electric 031 (RECO removal from IG)
* Incorporate NJ Change Control Electric 032 (PSE&G admin updates)
 |
| March 14, 2017Version 6.2 |  | * Incorporate PA Change Control 131 (Add DTM328 to identify data increment change)
* Incorporate PA Change Control 133v3 (Uniform Daylight Savings Time Reporting)
* Incorporate NJ Change Control Electric 039 (Uniform Daylight Savings Time Reporting)
* Incorporate MD Change Control 043 (Future PLC value/date for Potomac Edison)
* Incorporate MD Change Control 045 (Aggregate Net Metering family identifier REF\*AN)
* Incorporate MD Change Control 046 (Uniform Daylight Savings Time Reporting)
* Update Delaware Notes to say see Delmarva MD for applicability
 |
| May 18, 2018Version 6.3 |  | * Incorporate PA Change Control 140 (Update to REF\*KY gray box)
* Incorporate PA Change Control 147 (Incorporate Citizens & Wellsboro into IG)
* Incorporate NJ Change Control Electric 044 (Update to REF\*KY gray box)
* Incorporate MD Change Control 050 (Update to REF\*KY gray box)
 |
| March 22, 2019Version 6.4 |  | * Incorporate PA Change Control 149 (Add PA Use to REF\*AN)
* Incorporate MD Change Control 054 (Add new REF02 qualifiers to REF\*AN)
* Incorporate NJ Change Control Electric 048 (NJ Note – End of Clean Power Choice)
 |
| March 31, 2020Version 6.5 |  | * Incorporate PA Change Control 151v2 (FirstEnergy PA net meter data reporting)
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|  |  | 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. |
| Daylight Savings Time (DST) Reporting |  | The following formats are required to report Daylight Savings Time (DST).**Spring Daylight Savings Time**60 Minute Interval Increment - Upon the change from Eastern Standard time (ES) to Eastern Daylight time (ED) at 0200, the interval ending 0300 is skipped and the interval ending 0400 is sent with a Time Code (DTM04) of ED. The Time Code ‘ED’ will be displayed for every reading until the fall DST where it will change to ‘ES’ denoting Eastern Standard time.Example of Spring DST Change with 60-minute interval increments…QTY~QD~95.58~KHDTM~582~20150308~0100~ESQTY~QD~96.9~KHDTM~582~20150308~0200~ESQTY~QD~86.7~KHDTM~582~20150308~0400~EDQTY~QD~96.9~KHDTM~582~20150308~0500~EDQTY~QD~97.44~KH30 Minute Interval Increment - Upon the change from Eastern Standard time (ES) to Eastern Daylight time (ED) at 0200, the intervals ending 0230 & 0300 are skipped and the interval ending 0330 is sent with a Time Code (DTM04) of ED. The Time Code ‘ED’ will be displayed for every reading until the fall DST where it will change to ‘ES’ denoting Eastern Standard time. Example of Spring DST Change with 30-minute interval increments…QTY~QD~239.76~KHDTM~582~20150308~0130~ESQTY~QD~302.4~KHDTM~582~20150308~0200~ESQTY~QD~248.76~KHDTM~582~20150308~0330~EDQTY~QD~241.56~KHDTM~582~20150308~0400~ED15 Minute Interval Increment - Upon the change from Eastern Standard time (ES) to Eastern Daylight time (ED) at 0200, the intervals ending 0215, 0230, 0245 & 0300 are skipped and the interval ending 0315 is sent with a Time Code (DTM04) of ED. The Time Code ‘ED’ will be displayed for every reading until the fall DST where it will change to ‘ES’ denoting Eastern Standard time. Example of Spring DST Change with 15-minute interval increments…QTY~QD~239.76~KHDTM~582~20150308~0145~ESQTY~QD~302.4~KHDTM~582~20150308~0200~ESQTY~QD~248.76~KHDTM~582~20150308~0315~EDQTY~QD~241.56~KHDTM~582~20150308~0330~ED**Fall Daylight Savings Time**60 Minute Interval Increment – Upon the change from Eastern Daylight time (ED) to Eastern Standard time (ES) at 0200, the interval ending 0200 reading is repeated. The first interval ending 0200 represents the last interval for Eastern Daylight time (ED) with a Time Code (DTM04) of ED. The second interval ending 0200 represents the initial interval for Eastern Standard time (ES) with a Time Code (DTM04) of ES. The Time Code ‘ES’ will be displayed for every reading until the spring DST where it will change to ED denoting Eastern Daylight time.Example of Fall DST Change with 60-minute interval increments…QTY\*QD\*54.87\*KHDTM\*582\*20151101\*0100\*EDQTY\*QD\*55.62\*KHDTM\*582\*20151101\*0200\*EDQTY\*QD\*54.71\*KHDTM\*582\*20151101\*0200\*ESQTY\*QD\*53.46\*KHDTM\*582\*20151101\*0300\*ES30 Minute Interval Increment – Upon the change from Eastern Daylight time (ED) to Eastern Standard time (ES) at 0200, the intervals ending 0130 & 0200 are repeated. The interval ending 0200 represents the last interval for Eastern Daylight time (ED) with a Time Code (DTM04) of ED. The second interval ending 0130 represents the initial interval for Eastern Standard time (ES) with a Time Code (DTM04) of ES. The Time Code ‘ES’ will be displayed for every reading until the spring DST where it will change to ED denoting Eastern Daylight time.Example of Fall DST Change with 30-minute interval increments…QTY~QD~18.9~KHDTM~582~20151101~0100~EDQTY~QD~18.63~KHDTM~582~20151101~0130~EDQTY~QD~19.17~KHDTM~582~20151101~0200~EDQTY~QD~19.44~KHDTM~582~20151101~0130~ESQTY~QD~19.575~KHDTM~582~20151101~0200~ESQTY~QD~19.17~KHDTM~582~20151101~0230~ES15 Minute Interval Increment – Upon the change from Eastern Daylight time (ED) to Eastern Standard time (ES) at 0200, the intervals ending 0115, 0130, 0145 & 0200 are repeated. The interval ending 0200 represents the last interval for Eastern Daylight time (ED) with a Time Code (DTM04) of ED. The second interval ending 0115 represents the initial interval for Eastern Standard time (ES) with a Time Code (DTM04) of ES. The Time Code ‘ES’ will be displayed for every reading until the spring DST where it will change to ED denoting Eastern Daylight time.Example of Fall DST Change with 15-minute interval increments…QTY~QD~18.63~KHDTM~582~20151101~0115~EDQTY~QD~19.17~KHDTM~582~20151101~0130~EDQTY~QD~19.44~KHDTM~582~20151101~0145~EDQTY~QD~19.575~KHDTM~582~20151101~0200~EDQTY~QD~19.17~KHDTM~582~20151101~0115~ESQTY~QD~18.9~KHDTM~582~20151101~0130~ESQTY~QD~20.115~KHDTM~582~20151101~0145~ESQTY~QD~18.36~KHDTM~582~20151101~0200~ES QTY~QD~18.765~KH |

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| **Use****Implementation Information****Requirements for uniform support of Net Metered Customers:** |  | Pennsylvania Notes* 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:

Citizens & Wellsboro – supports; utilizes SU, BQ, FG loops Duquesne – Supports; utilizes account summary loops (SU, BQ & FG)First Energy (ME, PE, PP, & WPP)– Supports; utilizes account summary loops (SU, BQ & FG)PECO – Supports; utilizes account summary loops (SU, BQ & FG) 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 & FG). PPL EU – Supports; utilizes account summary loops (SU, BQ & FG)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 monthsPECO – 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.Account Level – both the SU and BQ loops are sent. Supported by Citizens & Wellsboro, 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. All PA EDCs (Excluding FirstEnergy)
	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.
2. FirstEnergy Companies
	1. Instead of reporting net KH in the SU loop, FirstEnergy will report the consumption and generation separately in their own loop. The REF\*6W Channel ID will identify the appropriate loop
		1. REF\*6W\*1 – Loop reports consumption (delivered) KH (QTY01 w/actual = QD or estimated = KA)
		2. REF\*6W\*2 – Loop reports generation (received) KH (QTY01 w/actual = 87 or estimated = 9H

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. All PA EDCs (Excluding FirstEnergy)
	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.
2. FirstEnergy Companies
	1. Will send two BQ loops, one for consumption (delivered) KH and one for generation (generation) KH
	2. Consumption (Delivered) loop identified by REF6W = “1” with each interval reported as consumption (QTY01 w/actual = QD or estimated = KA)
	3. Generation (Received) loop identified by REF6W = “2” with each interval reported as (QTY01 w/actual = 87 or estimated = 9H)
		1. Generation (Received) loop will be sent even when there is no generation reported for the period.

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. |
| **Change in Interval Data Increment** |  | The PTD01=BQ & PM loops will be repeated when the interval data reporting increment changes. See DTM\*328 segment and examples section for additional information. |

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|  |  | Maryland Notes |
| **Historical Usage Reporting****Requirements for uniform support of Net Metered Customers** |  | * **BG&E:** Historical Usage requests are processed as follows…

|  |  |  |  |
| --- | --- | --- | --- |
| **LIN05** | **Scenario** | **REF1P (Accepted Request)** | **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 =HU | HU available on interval account (AMI & MV90) | No REF1P sent | 867HU sent |
| LIN05 = HI | HI available (AMI & MV90) NOTE: MV90 aggregated to 60 minutes (15 min available on CDWeb) | 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 | REF1P = HIU | 867HU sent |
| LIN05 = HI | HI request on non-interval account | REF1P = UMA | 867HU sent |

* **Delmarva MD & PEPCO MD:** The supplier will receive 867HU for non-interval billed accounts and the 867HI for interval billed accounts. Historical Usage requests will be processed 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 |

* **Potomac Edison Note:** PE will provide an 867HU (Monthly Historical Information) for all Historical usage (HU) requests. Requests for historical interval data must be made outside of EDI.
* Maryland EDI Change Control 029 adopted uniform net meter data reporting for Maryland.
* 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. |

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| **Use****NJ Clean Power Choice** |  | **New Jersey Notes*** Transaction is optional in New Jersey.
* **Atlantic City Electric** – ACE supports 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 |

Pursuant to Board Order, Docket No. QO18040393, the Clean Power Choice Program is coming to an end effective February 28, 2019. The EDI segments and data elements used for Clean Power Choice will remain in the EDI Implementation Guidelines to support any cancel/rebill scenarios or for future use in the event another program is established that may need these data elements. |

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|  |  | Delaware Notes |
| **Use** |  | * See Delmarva MD under Maryland notes
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# How to Use the Implementation Guideline

 **Segment: REF Reference Identification**

This section is used to show the X12 Rules for this segment. You must look further into the grayboxes below for State Rules.

 **Position:** 030

 **Loop:** LIN

 **Level:** Detail

 **Usage:** Optional

 **Max Use:** >1

 **Purpose:** To specify identifying information

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

1. If either C04003 or C04004 is present, then the other is required.
2. 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:**

The “Notes:” section generally contains notes by the Utility Industry Group (UIG).

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| **Notes:** |  | Recommended by UIG |
| **PA Use:**This section is used to show the individual State’s Rules for implementation of this segment. |  | 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. |
|  |  | Request:Accept Response:Reject Response: | RequiredRequiredRequired  |
| **NJ Use:** |  | Same as PA |
| **Example:**One or more examples. |  | REF\*12\*2931839200 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name X12 Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|  | 12 |  | Billing Account |
|  | LDC-assigned account number for end use customer. |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X** | **AN 1/30** |
|  | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier |

This column shows the X12 attributes for each data element. Please refer to Data Dictionary for individual state rules.

M = Mandatory, O= Optional, X = Conditional

AN = Alphanumeric, N# = Decimal value,

ID = Identification, R = Real

1/30 = Minimum 1, Maximum 30

These are X12 code descriptions, which often do not relate to the information we are trying to send. Unfortunately, X12 cannot keep up with our code needs so we often change the meanings of existing codes. See graybox for the UIG or state definitions.

This column shows the use of each data element. If state rules differ, this will show “Conditional” and the conditions will be explained in the appropriate grayboxes.

**867 Historical Usage**

# X12 Structure

**Functional Group ID=PT**

**Heading:**

 **Pos. Seg. Req. Loop Notes and**

 **No. ID Name Des. Max.Use Repeat Comments**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Must Use | 010 | ST | Transaction Set Header | M | 1 |  |  |  |  |  |  |  |  |
| Must Use | 020 | BPT | Beginning Segment for Product Transfer and Resale | M | 1 |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - N1 |  |  | 5 |  |  |  |  |  |  |  |
|  | 080 | N1 | Name | O | 1 |  |  |  |  |  |  |  |  |
|  | 120 | REF | Reference Identification | O | 12 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Detail:**

 **Pos. Seg. Req. Loop Notes and**

 **No. ID Name Des. Max.Use Repeat 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 | O | 1 |  |  |  |  |  |  |  |  |
|  | 210 | DTM | Date/Time Reference | O | 10 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Summary:**

 **Pos. Seg. Req. Loop Notes and**

 **No. ID Name Des. Max.Use Repeat 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 = **52** |  | 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 = **DD** | BPT01 = **52** | X(2) |
| 5 | LDC Name | LDC's Name | N102 | N1: N101 = **8S** | X(60) |
| 6 | LDC Duns | LDC's DUNS Number or DUNS+4 Number | N104 | N1: N101 = **8S**N103 = **1** or **9** | 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 = **SJ**N103 = **1** or **9** | X(13) |
| 8.3 | Renewable Energy Provider Name | Renewable Energy Provider 's Name | N102 | N1: N101 = **G7** | X(60) |
| 8.4 | Renewable Energy Provider Duns | Renewable Energy Provider 's DUNS Number or DUNS+4 Number | N104 | N1: N101 = **G7**N103 = **1** or **9** | X(13) |
| 9 | Customer Name | Customer Name | N102 | N1: N101 = **8R** | X(60) |
| 10 | ESP Account Number | ESP Customer Account Number | REF02 | N1: N101 = **8R**REF01 = **11** | X(30) |
| 11 | LDC Account Number | LDC Customer Account Number | REF02 | N1: N101 = **8R**REF01 = **12** | X(30) |
| 12 | Old Account Number | Previous LDC Customer Account Number | REF02 | N1: N101 = **8R**REF01 = **45** | 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 |
| 13 | Loop Identification | Indicates if usage is provided totalized or by meter. | PTD01 = **SU** |  | X(2) |
| 14.2 | Service Period Start | Start date of the period for which these readings are provided  | DTM02 | DTM01 = **150** | X(8) |
| 14.5 | Service Period End | End date of the period for which these readings are provided  | DTM02 | DTM01 = **151** | X(8) |
| 16.2 | Quantity Qualifier | Represents whether the quantity is actual or estimated:**KA** = Estimated Quantity Delivered**QD** = Actual Quantity Delivered**87** = Actual Quantity Received (Net Meter)**9H** = Estimated Quantity Received (Net Meter) | QTY01 |  | X(2) |
| 16.4 | Quantity Delivered | Represents quantity of consumption delivered for billing period. | QTY02 | QTY01 | 9(15) |
| 16.6 | Quantity Delivered Unit of Measurement | Indicates unit of measurement for quantity of consumption delivered during billing period.  | QTY03 |  | X(2) |
| 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 |
| 17.1 | Loop Identification | Indicates if usage is provided totalized or by meter. | PTD01 = **RT** |  | X(2) |
| 17.2 | Profile Group | A code for the Load Profile used for this rate. Differs by LDC. Codes posted on LDC’s Web site. | REF02 | PTD: REF01= **LO** | X(30) |
| 17.3 | LDC Rate Code | Code indicating the rate a customer is being charged by LDC per tariff. Codes posted on LDC’s Web site | REF02 | PTD: REF01= **NH** | X(30) |
| 17.4 | LDC Rate Sub-class | Code to provide further classification of LDC Rate Code | REF02 | PTD: REF01= **PR** | X(30) |
| 17.4 | Quantity Qualifier | Represents whether the quantity is actual or estimated:**KA** = Estimated Quantity Delivered**QD** = Actual Quantity Delivered**87** = Actual Quantity Received (Net Meter)**9H** = Estimated Quantity Received (Net Meter) | QTY01 |  | X(2) |
| 17.5 | Quantity Delivered | Represents quantity of consumption delivered for billing period. | QTY02 | QTY01  | 9(15) |
| 17.6 | Quantity Delivered Unit of Measurement | Indicates unit of measurement for quantity of consumption delivered during billing period.  | QTY03 |  | X(2) |
| 17.7 | Consumption  | 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. | MEA03 | MEA02 = **PRQ**  | 9(9).9(4) |
| 17.8 | Unit of Measure | Unit of measure for readings. | MEA04 |  | X(2) |
| 17.9 | Measurement Significance Code | Code used to benchmark, qualify, or further define a measurement value.  | MEA07 |  | X(2) |
| 17.10 | Service Period Start | Start date of the period for which these readings are provided  | DTM02 | QTY: DTM01 = **150** | X(8) |
| 17.11 | Service Period End | End date of the period for which these readings are provided  | DTM02 | QTY: DTM01 = **151** | X(8) |
|  |  |  |  |  |  |
| **PTD Loop for Historical Interval Usage that is provided at Account Level (PTD01 = BQ)** |
| A PTD Loop will be provided for each type of consumption measured (PTD01 = BQ) in addition to the PTD loop that provides Scheduling Determinants when appropriate |
| 21 | Loop Identification | Indicates if usage is provided totalized or by meter. | PTD01 = **BQ** |  | X(2) |
| 22.1 | Service Period Begin Date | Start date of the service period or start date of the changed in meter. | DTM02 | DTM01 = **150** | 9(8) |
| 22.3 | Service Period End Date | End date of the service period or end date of the changed out meter. | DTM02 | DTM01 = **151** | 9(8) |
| 23 | Change Interval Data Increment | Date when the change in the interval data increment occurs | DTM02 | DTM01 = **328** | 9(8) |
| 24 | Meter Type | Code indicating type of consumption measured & interval at which measurements are taken. | REF02 | PTD: REF01 = **MT** | 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 = **582** | 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) |
| **PTD Loop for Scheduling Determinants (PTD01 = FG)** |
| This PTD provides Scheduling Determinants when appropriate |
| 30 | Loop Identification | Indicates if usage is provided totalized or by meter. | PTD01 = **FG** |  | X(2) |
| 31 | Loss Factor | Loss Factor | REF02 | PTD:REF01=**LF** | X(30) |
| 32 | Profile Group | A code for the Load Profile used for this customer. Differs by LDC. Codes posted on LDC’s Web site. | REF02 | PTD: REF01= **LO** | X(30) |
| 33 | LDC Rate Code | Code indicating the rate a customer is being charged by LDC per tariff. Codes posted on LDC’s Web site | REF02 | PTD: REF01= **NH** | X(30) |
| 34 | LDC Rate Sub-Class | Code to provide further classification of LDC Rate Code | REF02 | PTD: REF01= **PR** | X(30) |
| 35 | LDC Billing Cycle | LDC Cycle on which the bill will be rendered | REF02 | PTD: REF01= **BF** | X(4) |
| 36 | Service Voltage | Service voltage | REF02 | NM1:REF01=**SV** | X(30) |
| 37 | Special Meter Configuration Code | Used to convey there’s a special meter present on the account. For example, Net Metering | REF02 | PTD: REF01 = **KY** | X(3) |
| 37.1 | Special Meter Configuration Information | PPLEU-used to report the max K1 (demand) the special meter supports | REF03 | PTD: RF01 = **KY** | X(80) |
| 38 | Aggregate Net Energy Meter Role | The role of the customer account in the Aggregate Net Energy Meter family | REF02 | PTD: REF01= **AN** | X(30) |
| 39 | Peak Load Contribution (PLC) | Peak load contributions provided to PJM for Installed Capacity calculation (coincident with PJM Peak). | QTY02 | PTD: QTY01 = **KC** | 9(15) |
| 40 | Unit of Measure | Indicates unit of measurement for quantity of consumption delivered during billing period.  | QTY03 = **K1** | PTD: QTY01 = **QD** | 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 = **KZ** | 9(15) |
| 42 | Quantity Delivered Unit of Measurement | Indicates unit of measurement for quantity of consumption delivered during billing period.  | QTY03 = **K1** | PTD: QTY01 = **QD** | X(2) |

#  Segment: ST Transaction Set Header

 **Position:** 010

 **Loop:**

 **Level:** Heading

 **Usage:** Mandatory

 **Max Use:** 1

 **Purpose:** To indicate the start of a transaction set and to assign a control number

 **Syntax Notes:**

 **Semantic Notes:** **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **PA Use:** |  | Required |
| **NJ Use:** |  | Optional |
| **DE Use:** |  | Not Used |
| **MD Use:** |  | Same as PA; see Notes section for utility support |
| **Example:** |  | ST\*867\*000000001 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **ST01** | **143** | **Transaction Set Identifier Code** | **M** | **ID 3/3** |
|  | Code uniquely identifying a Transaction Set |
|  | 867 |  | Product Transfer and Resale Report |
| **Must Use** | **ST02** | **329** | **Transaction Set Control Number** | **M** | **AN 4/9** |
|  | Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set |

#  Segment: BPT Beginning Segment for Product Transfer and Resale

 **Position:** 020

 **Loop:**

 **Level:** Heading

 **Usage:** Mandatory

 **Max Use:** 1

 **Purpose:** To indicate the beginning of the Product Transfer and Resale Report Transaction Set and transmit identifying data

 **Syntax Notes:** **1** If either BPT05 or BPT06 is present, then the other is required.

 **Semantic Notes:** **1** BPT02 identifies the transfer/resale number.

 **2** BPT03 identifies the transfer/resale date.

 **3** BPT08 identifies the transfer/resale time.

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **BPT01** | **353** | **Transaction Set Purpose Code** | **M** | **ID 2/2** |
|  | Code identifying purpose of transaction set |
|  | 52 |  | Response to Historical Inquiry |
|  | Response to a request for historical meter reading. |
| **Must Use** | **BPT02** | **127** | **Reference Identification** | **O** | **AN 1/30** |
|  | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier |
|  | A unique transaction identification number assigned by the originator of this transaction. This number should be unique over all time. |
| **Must Use** | **BPT03** | **373** | **Date** | **M** | **DT 8/8** |
|  | Date (CCYYMMDD) |
|  | The transaction creation date – the date that the data was processed by the application system. |
| **Must Use** | **BPT04** | **755** | **Report Type Code** | **O** | **ID 2/2** |
|  | Code indicating the title or contents of a document, report or supporting item |
|  | C1 |  | Cost Data Summary |
|  | Interval Data |

#  Segment: N1 Name (8S=LDC 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\*8S\*LDC COMPANY\*1\*007909411 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **N101** | **98** | **Entity Identifier Code** | **M** | **ID 2/3** |
|  | Code identifying an organizational entity, a physical location, property or an individual |
|  | 8S |  | Consumer Service Provider (CSP) |
|  | LDC |
| **Must Use** | **N102** | **93** | **Name** | **X** | **AN 1/60** |
|  | Free-form name |
|  | LDC Company Name |
| **Must Use** | **N103** | **66** | **Identification Code Qualifier** | **X** | **ID 1/2** |
|  | Code designating the system/method of code structure used for Identification Code (67) |
|  | 1 |  | D-U-N-S Number, Dun & Bradstreet |
|  | 9 |  | D-U-N-S+4, D-U-N-S Number with Four Character Suffix |
| **Must Use** | **N104** | **67** | **Identification Code** | **X** | **AN 2/20** |
|  | Code identifying a party or other code |
|  | LDC D-U-N-S Number or D-U-N-S + 4 Number |

#  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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **N101** | **98** | **Entity Identifier Code** | **M** | **ID 2/3** |
|  | Code identifying an organizational entity, a physical location, property or an individual |
|  | SJ |  | Service Provider |
|  | ESP |
| **Must Use** | **N102** | **93** | **Name** | **X** | **AN 1/60** |
|  | Free-form name |
|  | ESP Company Name |
| **Must Use** | **N103** | **66** | **Identification Code Qualifier** | **X** | **ID 1/2** |
|  | Code designating the system/method of code structure used for Identification Code (67) |
|  | 1 |  | D-U-N-S Number, Dun & Bradstreet |
|  | 9 |  | D-U-N-S+4, D-U-N-S Number with Four Character Suffix |
| **Must Use** | **N104** | **67** | **Identification Code** | **X** | **AN 2/20** |
|  | Code identifying a party or other code |
|  | ESP D-U-N-S Number or D-U-N-S + 4 Number |

#  Segment: N1 Name (G7=Renewable Energy Provider 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:** |  | Not Used |
| **NJ Use:** |  | 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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **N101** | **98** | **Entity Identifier Code** | **M** | **ID 2/3** |
|  | Code identifying an organizational entity, a physical location, property or an individual |
|  | G7 |  | Entity Providing the Service |
|  | Renewable Energy Provider |
| **Must Use** | **N102** | **93** | **Name** | **X** | **AN 1/60** |
|  | Free-form name |
|  | Renewable Energy Provider Company Name |
| **Must Use** | **N103** | **66** | **Identification Code Qualifier** | **X** | **ID 1/2** |
|  | Code designating the system/method of code structure used for Identification Code (67) |
|  | 1 |  | D-U-N-S Number, Dun & Bradstreet |
|  | 9 |  | D-U-N-S+4, D-U-N-S Number with Four Character Suffix |
| **Must Use** | **N104** | **67** | **Identification Code** | **X** | **AN 2/20** |
|  | Code identifying a party or other code |
|  | Renewable Energy Provider D-U-N-S Number or D-U-N-S + 4 Number |

#  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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **N101** | **98** | **Entity Identifier Code** | **M** | **ID 2/3** |
|  | Code identifying an organizational entity, a physical location, property or an individual |
|  | 8R |  | Consumer Service Provider (CSP) Customer |
|  | End Use Customer |
| **Must Use** | **N102** | **93** | **Name** | **X** | **AN 1/60** |
|  | Free-form name |
|  | Customer Name as 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.

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

 **3** If either C04005 or C04006 is present, then the other is required.

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|  | 11 |  | Account Number |
|  | ESP-assigned account number for end use customer. |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X** | **AN 1/30** |
|  | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier |

##  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.

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

 **3** If either C04005 or C04006 is present, then the other is required.

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|  | 12 |  | Billing Account |
|  | LDC-assigned account number for end use customer. |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X** | **AN 1/30** |
|  | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier |

##  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.

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

 **3** If either C04005 or C04006 is present, then the other is required.

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **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 Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|  | 45 |  | Old Account Number |
|  | LDC’s previous account number for the end use customer. |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X** | **AN 1/30** |
|  | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier |

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

 **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. 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  |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **PTD01** | **521** | **Product Transfer Type Code** | **M** | **ID 2/2** |
|  | Code identifying the type of product transfer |
|  | 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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **QTY01** | **673** | **Quantity Qualifier** | **M** | **ID 2/2** |
|  | Code specifying the type of quantity |
|  | 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** | **Quantity** | **X** | **R 1/15** |
|  | Numeric value of quantity |
| **Must Use** | **QTY03** | **355** | **Unit or Basis for Measurement Code** | **M** | **ID 2/2** |
|  | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken |
|  | 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 |

##  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.

 **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  |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** | **ID 3/3** |
|  | Code specifying type of date or time, or both date and time |
|  | 150 |  | Service Period Start |
| **Must Use** | **DTM02** | **373** | **Date** | **X** | **DT 8/8** |
|  | Date expressed as CCYYMMDD |

##  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  |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** | **ID 3/3** |
|  | Code specifying type 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: PTD Product Transfer and Resale Detail (RT=Rate)

 **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:**

|  |  |  |
| --- | --- | --- |
| **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. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **PTD01** | **521** | **Product Transfer Type Code** | **M** | **ID 2/2** |
|  | Code identifying the type of product transfer |
|  | 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.

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

 **3** If either C04005 or C04006 is present, then the other is required.

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name X12 Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|  | LO |  | Load Planning Number |
|  | Load profile |
| **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: 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.

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

 **3** If either C04005 or C04006 is present, then the other is required.

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|  | NH |  | LDC Rate Code |
| **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: 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.

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

 **3** If either C04005 or C04006 is present, then the other is required.

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **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**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|  | PR |  | Price Quote Number |
|  | LDC Rate Subclass – Used to provide further classification of a rate. |
|  |  |  |  |  |  |
| **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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **QTY01** | **673** | **Quantity Qualifier** | **M** | **ID 2/2** |
|  | Code specifying the type of quantity |
|  | 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** | **Quantity** | **X** | **R 1/15** |
|  | Numeric value of quantity |
| **Must Use** | **QTY03** | **355** | **Unit or Basis for Measurement Code** | **M** | **ID 2/2** |
|  | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken |
|  | 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). |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **MEA02** | **738** | **Measurement Qualifier** | **O** | **ID 1/3** |
|  | Code identifying a specific product or process characteristic to which a measurement applies |
|  | PRQ |  | Consumption |
| **Must Use** | **MEA03** | **739** | **Measurement Value** | **X** | **R 1/20** |
|  | The value of the measurement |
|  | 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** | **M** | **ID 2/2** |
|  | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken |
|  | K1 |  | Kilowatt Demand |
|  | Represents potential power load measured at predetermined intervals |
|  | K2 |  | Kilovolt Amperes Reactive Demand |
|  | 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 |
|  | Represents actual electricity equivalent to kilowatt hours; billable when usage meets or exceeds defined parameters |
|  | K4 |  | Kilovolt Amperes (KVA) |
|  | K5 |  | Kilovolt Amperes Reactive |
|  | KH |  | Kilowatt Hour |
| **Must Use** | **MEA07** | **935** | **Measurement Significance Code** | **O** | **ID 2/2** |
|  | Code used to benchmark, qualify or further define a measurement value |
|  | 41 |  | Off Peak |
|  | 42 |  | On Peak |
|  | 43 |  | Intermediate |
|  | 51 |  | Total |
|  | Totalizer |
|  | 66 |  | Shoulder |

##  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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** | **ID 3/3** |
|  | Code specifying type of date or time, or both date and time |
|  | 150 |  | Service Period Start |
| **Must Use** | **DTM02** | **373** | **Date** | **X** | **DT 8/8** |
|  | Date expressed as CCYYMMDD |

##  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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** | **ID 3/3** |
|  | Code specifying type 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: 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. **Note**: 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. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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  |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** | **ID 3/3** |
|  | Code specifying type of date or time, or both date and time |
|  | 150 |  | Service Period Start |
| **Must Use** | **DTM02** | **373** | **Date** | **X** | **DT 8/8** |
|  | 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.

 **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  |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** | **ID 3/3** |
|  | Code specifying type 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: DTM Date/Time Reference (328=Change Interval Data Increment)

 **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.

1. If DTM04 is present, then DTM03 is required.
2. 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 the Interval Data Increment has been changed by the LDC. Separate PTD loops must be created for each period and Interval Data Increment value reporting in the REF\*MT (meter type) segment. |
|  **PA Use:** |  | Required when there is a change to the Interval Data Increment |
|  **NJ Use:** |  | Not Used |
| **DE Use:** |  | Not Used |
| **MD Use:** |  | Not Used |
|  **Example:** |  | Date Range in the first PTD is shown as:DTM\*150\*20151201DTM\*328\*20151214Date Range in the second PTD is shown as:DTM\*328\*20151214DTM\*151\*20151231 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** | **ID 3/3** |
|  | Code specifying type of date or time, or both date and time |
|  | 328 |  | Changed |
|  | Change Interval Data Increment |
| **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.

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

 **3** If either C04005 or C04006 is present, then the other is required.

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **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**

 **Ref. Data**

 **Des. Element Name X12 Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|  | MT |  | Meter Type |
|  | Billing Data Types and Interval Frequencies |
| **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 |
|  | When REF01 is MT, the meter type is expressed as a five-character field. The first two characters are the type of consumption, the last three characters are the metering interval. “COMBO” is used for a meter that records more than one measurement. Valid values can be a combination of the following values:  |
|  |  |  |  |
|  | Type of Consumption |  | Metering Interval |
|  | 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. (NOTE: The code of COMBO is no longer valid in Pennsylvania as per PA CC 131) |

##

##  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 Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **QTY01** | **673** | **Quantity Qualifier** | **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 intervals. |
|  | 87 |  | Actual Quantity Received (Net Metering) |
|  | Used when the net generation quantity received is actual. |
|  | 96 |  | Non-Billable Quantity |
|  | Indicates this quantity and interval are outside of the actual bill period |
|  | 9H |  | Estimated Quantity Received (Net Metering) |
|  | 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** | **Quantity** | **X** | **R 1/15** |
|  | Numeric value of quantity |
| **Must Use** | **QTY03** | **355** | **Unit or Basis for Measurement Code** | **M** | **ID 2/2** |
|  | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken |
|  | 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 |

##

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

 **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.

1. If DTM04 is present, then DTM03 is required.
2. 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\*ED |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** | **ID 3/3** |
|  | Code specifying type of date or time, or both date and time |
|  | 582 |  | Report Period |
|  | The date/time of the end of the interval.  |
| **Must Use** | **DTM02** | **373** | **Date** | **X** | **DT 8/8** |
|  | Date expressed as CCYYMMDD |
| **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:** 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 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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **PTD01** | **521** | **Product Transfer Type Code** | **M** | **ID 2/2** |
|  | Code identifying the type of product transfer |
|  | BO |  | Designated Items |
|  | Meter Services Interval Summary |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **PTD04** | **128** | **Reference Identification Qualifier** | **X** |  | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|   | MG |  | Meter Number |
| **Must Use** | **PTD05** | **127** | **Reference Identification** | **X** |  | **AN 1/30** |
|  | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier |
|  | Meter NumberMeter numbers will contain only uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and significant leading and trailing zeros that are part of the meter number must be present. |

##  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:** |  | Same as PA; see Notes section for utility support |
| **Example:** |  | DTM\*150\*20080101  |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** | **ID 3/3** |
|  | Code specifying type of date or time, or both date and time |
|  | 150 |  | Service Period Start |
| **Must Use** | **DTM02** | **373** | **Date** | **X** | **DT 8/8** |
|  | 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.

 **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 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  |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** | **ID 3/3** |
|  | Code specifying type 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: 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  |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** | **ID 3/3** |
|  | Code specifying type of date or time, or both date and time |
|  | 514 |  | Transferred |
|  | Exchanged meter read date |
| **Must Use** | **DTM02** | **373** | **Date** | **X** | **DT 8/8** |
|  | Date expressed as CCYYMMDD |

##  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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **QTY01** | **673** | **Quantity Qualifier** | **M** | **ID 2/2** |
|  | Code specifying the type of quantity |
|  | 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** | **Quantity** | **X** | **R 1/15** |
|  | Numeric value of quantity |
| **Must Use** | **QTY03** | **355** | **Unit or Basis for Measurement Code** | **M** | **ID 2/2** |
|  | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken |
|  | 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 |

##

#  Segment: PTD Product Transfer and Resale Detail (PM=Meter 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 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. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **PTD01** | **521** | **Product Transfer Type Code** | **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:** |  | 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  |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** | **ID 3/3** |
|  | Code specifying type of date or time, or both date and time |
|  | 150 |  | Service Period Start |
| **Must Use** | **DTM02** | **373** | **Date** | **X** | **DT 8/8** |
|  | 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.

 **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 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  |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** | **ID 3/3** |
|  | Code specifying type 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: 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  |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** | **ID 3/3** |
|  | Code specifying type of date or time, or both date and time |
|  | 514 |  | Transferred |
|  | Exchanged meter read date |
| **Must Use** | **DTM02** | **373** | **Date** | **X** | **DT 8/8** |
|  | Date expressed as CCYYMMDD |

##  Segment: 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.

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

 **3** If either C04005 or C04006 is present, then the other is required.

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|  | MG |  | Meter Number |
|  | Meter ID Serial Number |
| **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: 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.

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

 **3** If either C04005 or C04006 is present, then the other is required.

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **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**

 **Ref. Data**

 **Des. Element Name X12 Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|  | MT |  | Meter Type |
|  | Billing Data Types and Interval Frequencies |
| **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 |
|  | When REF01 is MT, the meter type is expressed as a five-character field. The first two characters are the type of consumption, the last three characters are the metering interval. “COMBO” is used for a meter that records more than one measurement. Valid values can be a combination of the following values:  |
|  |  |  |  |
|  | Type of Consumption |  | Metering Interval |
|  | 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.

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

 **3** If either C04005 or C04006 is present, then the other is required.

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|  | NH |  | LDC Rate Code |
| **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 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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **QTY01** | **673** | **Quantity Qualifier** | **M** | **ID 2/2** |
|  | Code specifying the type of quantity |
|  | 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** | **Quantity** | **X** | **R 1/15** |
|  | Numeric value of quantity |
| **Must Use** | **QTY03** | **355** | **Unit or Basis for Measurement Code** | **M** | **ID 2/2** |
|  | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken |
|  | 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 |

##  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.

1. If DTM04 is present, then DTM03 is required.
2. 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\*ED |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** | **ID 3/3** |
|  | Code specifying type of date or time, or both date and time |
|  | 582 |  | Report Period |
|  | The date/time of the end of the interval.  |
| **Must Use** | **DTM02** | **373** | **Date** | **X** | **DT 8/8** |
|  | Date expressed as CCYYMMDD |
| **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 (FG=Scheduling Determinants)

 **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 to provide Scheduling Determinants, such as the Capacity 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. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.

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

 **3** If either C04005 or C04006 is present, then the other is required.

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name X12 Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|  | LF |  | Load Planning Number |
|  | Loss Factor |
| **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: 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.

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

 **3** If either C04005 or C04006 is present, then the other is required.

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **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\*LO\*GS |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name X12 Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|  | LO |  | Load Planning Number |
|  | Load profile |
| **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: 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.

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

 **3** If either C04005 or C04006 is present, then the other is required.

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|  | NH |  | LDC Rate Code |
| **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: 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.

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

 **3** If either C04005 or C04006 is present, then the other is required.

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **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**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|  | PR |  | Price Quote Number |
|  | LDC Rate Subclass – Used to provide further classification of a rate. |
|  |  |  |  |  |  |
| **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: 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.

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

 **3** If either C04005 or C04006 is present, then the other is required.

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|  | BF |  | LDC Bill Cycle |
| **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: 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.

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

 **3** If either C04005 or C04006 is present, then the other is required.

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **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. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|  | SV |  | Service Voltage |
| **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 |

 PRIMARY

 SECONDARY

 Actual service voltage transmission value (Ex: 34.5kV)

##  Segment: REF Reference Identification (KY=Special Meter Configuration)

 **Position: 03**0

 **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.

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

 **3** If either C04005 or C04006 is present, then the other is required.

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **PA Use:** |  | Required when special meter configuration is present on an account.  |
| **NJ Use:** |  | Same as PA  |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Example:** |  | REF\*KY\* NSUN\*0000026 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name X12 Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|  | KY |  | Site Specific Procedures, Terms, and Conditions |
|  | Special Meter Configuration |
| **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 |
|  | ASUNAWINAHYDABIOAWSTACHPAMLTNSUNNWINNHYDNBIONWSTNCHPNFOSNMLTNETMETER |  | Net Metering SolarNet Metering WindNet Metering HydroNet Metering BiomassNet Metering WasteNet Metering Combined Heat and PowerNet Metering Multiple Different SourcesNon-Net Metering SolarNon-Net Metering WindNon-Net Metering HydroNon-Net Metering BiomassNon-Net Metering WasteNon-Net Metering Combined Heat and PowerNon-Net Metering Fossil FuelNon-Net Metering Multiple Different SourcesNet Meter (Used for EDCs who will not report the specific type of net meter) |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Optional** | **REF03** | **352** | **Description** | **X** | **AN 1/80** |
|  | A free-form description to clarify the related data elements and their content |
|  |  |  |  |
|  | 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: REF Reference Identification (AN=Aggregate Net Energy Meter Role)

 **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.

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

 **3** If either C04005 or C04006 is present, then the other is required.

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **PA Use:** |  | Conditional - Required when the customer account is part of an Aggregate Net Energy Meter family. (FirstEnergy only)  |
| **NJ Use:** |  | Not Used |
| **DE Use:** |  | Not Used |
| **MD Use:** |  | Conditional - Required when the customer account is part of an Aggregate Net Energy Meter family or Community Solar program. NOTE: Community Solar requirement is for FirstEnergy (Potomac Edison) only. |
| **Example:** |  | REF\*AN\* PARENTHOST |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name X12 Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|  | AN |  | Aggregate Net Energy Meter Role |
|  | The role of the customer account in the Aggregate Net Energy Meter family |
| **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 |
|  | PARENTHOSTPARENTCHILD GENERATORSUBSCRIBER |  | BGE & FE: Host Account with GenerationPHI: Customer designated primary host (parent) with GenerationBGE & FE: Not UsedPHI: Host account with generation, not the primaryChild account, may or may not have its own generation. NOTE - The REF\*KY segment is used to notify the account has its own generation.FE: Community Solar Host Account with GenerationBGE & PHI: Not UsedFE: Community Solar Child AccountBGE & PHI: Not Used |

##  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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Each QTY/MEA/DTM loop conveys consumption information about one metering period. |
| **PA Use:** |  | 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\*K1DTM\*007\*\*\*\*RD8\*20090601-20100531QTY\*KC\*450\*K1DTM\*007\*\*\*\*RD8\*20100601-20110531Whereas in September 2010 the PLC value would include only one loop because the following year's PLC is undetermined:QTY\*KC\*450\*K1DTM\*007\*\*\*\*RD8\*20100601-20110531 |
| **NJ Use:** |  | 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. |
| **DE Use:** |  | N/A |
| **MD Use:** |  | Required for PJM participants; see Notes section for utility support. This will be the Peak Load Contribution in effect when the transaction is requested. Potomac Edison – follows PA use of effective dates where Future Peak Load Contribution is sent when calculated and available. |
| **Example:** |  | QTY\*KC\*752\*K1 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **QTY01** | **673** | **Quantity Qualifier** | **M** | **ID 2/2** |
|  | Code specifying the type 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** | **Quantity** | **X** | **R 1/15** |
|  | Numeric value of quantity |
| **Must Use** | **QTY03** | **355** | **Unit or Basis for Measurement Code** | **M** | **ID 2/2** |
|  | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken |
|  | K1 |  | Kilowatt Demand |
|  | 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:**

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **PA Use:** |  | Required for PJM ParticipantsThe QTY/DTM loop may be sent twice depending on the time of year the HistoricalUsage 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\*K1DTM\*007\*\*\*\*RD8\*20090601-20100531QTY\*KC\*450\*K1DTM\*007\*\*\*\*RD8\*20100601-20110531Whereas in September 2010 the PLC value would include only one loop because the following year's PLC is undetermined:QTY\*KC\*450\*K1DTM\*007\*\*\*\*RD8\*20100601-20110531 |
| **NJ Use:** |  | Not Used |
| **DE Use:** |  | Not Used |
| **MD Use:** |  |  Required for Potomac Edison. Optional for other MD LDCs. See PA Notes for implementation. |
| **Example:** |  | DTM\*007\*\*\*\*RD8\*20070601-20080531 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** | **ID 3/3** |
|  | Code specifying type of date, or time, or both date and time |
|  | 007 |  | EffectivePLC Effective Date |
| **Must Use** | **DTM05** | **1250** | **Date/Time Period Format Qualifier** | **X** | **ID 2/3** |
|  | Code indicating the date format, time format, or date and time format |
|  | RD8 |  | Range of Dates Expressed in Format CCYYMMDD-CCYYMMDD |
| **Must Use** | **DTM06** | **1251** | **Date/Time Period** | X | **AN 1/35** |
|  | Expressed as CCYYMMDD-CCYYMMDD |

##  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:**

|  |  |  |
| --- | --- | --- |
| **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\*K1DTM\*007\*\*\*\*RD8\*20100101-20101231QTY\*KZ\*450\*K1DTM\*007\*\*\*\*RD8\*20110101-20111231Or just one:QTY\*KZ\*450\*K1DTM\*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. This will be the Network Service Peak Load in effect when the transaction is requested. Potomac Edison – follows PA use where Future Network Service Peak Load is sent when calculated and available. |
| **Example:** |  | QTY\*KZ\*752\*K1 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **QTY01** | **673** | **Quantity Qualifier** | **M** | **ID 2/2** |
|  | Code specifying the type of quantity |
|  | 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** | **Quantity** | **X** | **R 1/15** |
|  | Numeric value of quantity |
| **Must Use** | **QTY03** | **355** | **Unit or Basis for Measurement Code** | **M** | **ID 2/2** |
|  | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken |
|  | 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 ParticipantsNSPL is for January 1 - December 31The 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\*K1DTM\*007\*\*\*\*RD8\*20100101-20101231QTY\*KZ\*450\*K1DTM\*007\*\*\*\*RD8\*20110101-20111231Or just one:QTY\*KZ\*450\*K1DTM\*007\*\*\*\*RD8\*20110101-20111231 |
| **NJ Use:** |  | Not Used |
| **DE Use:** |  | Not Used |
| **MD Use:** |  | This will be the Network Service Peak Load in effect when the transaction is requested. Potomac Edison – follows PA use where Future Network Service Peak Load is sent when calculated and available. |
| **Example:** |  | DTM\*007\*\*\*\*RD8\*20070601-20080531 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** | **ID 3/3** |
|  | Code specifying type of date, or time, or both date and time |
|  | 007 |  | EffectiveNSPL Effective Date |
| **Must Use** | **DTM05** | **1250** | **Date/Time Period Format Qualifier** | **X** | **ID 2/3** |
|  | Code indicating the date format, time format, or date and time format |
|  | RD8 |  | Range of Dates Expressed in Format CCYYMMDD-CCYYMMDD |
| **Must Use** | **DTM06** | **1251** | **Date/Time Period** | X | **AN 1/35** |
|  | Expressed as CCYYMMDD-CCYYMMDD |

 **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 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Must Use** | **SE01** | **96** | **Number of Included Segments** | **M** | **N0 1/10** |
|  | Total number of segments included in a transaction set including ST and SE segments |
| **Must Use** | **SE02** | **329** | **Transaction Set Control Number** | **M** | **AN 4/9** |
|  | Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set |

# Example: Historical Interval Usage by Account

**Heading:**

|  |  |
| --- | --- |
| BPT\*52\*2008070112300001\*20080701\*C1 | Transaction Set Purpose Code: **52**, *Response to Historical Inquiry*Reference Identification: **2008070112300001,** Transaction Date: **20080701,** 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 |

**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 |
| 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. |
| QTY\*QD\*233\*KH | Consumption |
| DTM\*582\*20080701\*0200\*ED | End date and time of the period for which the quantity is provided. |
| QTY\*QD\*416\*KH | Consumption |
| DTM\*582\*20080701\*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\*20080731\*2300\*ED | End date and time of the period for which the quantity is provided. |
| QTY\*QD\*700\*KH | Consumption |
| DTM\*582\*20080731\*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 [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 (Excluding FirstEnergy in PA)**

|  |  |
| --- | --- |
| BPT\*52\*2012070112300001\*20120701\*C1 | Transaction Set Purpose Code: **52**, *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 |
| REF\*MT\*KH060 | Meter Type |
| 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 | 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 | Service Voltage (FE Only; optional others) |
| QTY\*KC\*752\*K1 | Peak Load Contribution  |
| QTY\*KZ\*752\*K1 | Network Service Peak Load |

**Historical Interval Usage Summarized by Account – with Net Metering (FirstEnergy in PA Only)**

|  |  |
| --- | --- |
| BPT\*52\*201903140404550002229777\*20190314\*C1 | Transaction Set Purpose Code: **52**, *Response to Historical Inquiry*Reference Identification: **201903140404550002229777,** Transaction Date: **20190314,** 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\*11\*8645835 | ESP Account Number |
| REF\*12\*08009850040002435782 | LDC Account Number |
| **PTD\*SU** | Summary Loop for kwh – **Consumption Loop (DELIVERED KH)** |
| REF\*6W\*1 | Channel Number |
| QTY\*KA\*2037.0000000\*KH | Billed usage (kwh) |
| DTM\*150\*20180309 | Service Period Start |
| DTM\*151\*20180409 | Service Period End |
| QTY\*QD\*2998.0000000\*KH | Billed usage (kwh) |
| DTM\*150\*20180410 | Service Period Start |
| DTM\*151\*20180507 | Service Period End |
| QTY\*QD\*2753.0000000\*KH | Billed usage (kwh) |
| DTM\*150\*20180508 | Service Period Start |
| DTM\*151\*20180607 | Service Period End |
| QTY\*QD\*2052.0000000\*KH | Billed usage (kwh) |
| DTM\*150\*20180608 | Service Period Start |
| DTM\*151\*20180709 | Service Period End |
| **PTD\*SU** | Summary Loop for kwh – **Generation Loop (RECEIVED KH)** |
| REF\*6W\*2 | Channel Number |
| QTY\*9H\*1007.0000000\*KH | Billed usage (kwh) |
| DTM\*150\*20180309 | Service Period Start |
| DTM\*151\*20180409 | Service Period End |
| QTY\*87\*1098.0000000\*KH | Billed usage (kwh) |
| DTM\*150\*20180410 | Service Period Start |
| DTM\*151\*20180507 | Service Period End |
| QTY\*87\*1053.0000000\*KH | Billed usage (kwh) |
| DTM\*150\*20180508 | Service Period Start |
| DTM\*151\*20180607 | Service Period End |
| QTY\*87\*1105.0000000\*KH | Billed usage (kwh) |
| DTM\*150\*20180608 | Service Period Start |
| DTM\*151\*20180709 | Service Period End |
| **PTD\*BQ** | Account Services Detail loop – **Consumption Loop (DELIVERED KH)** |
| DTM\*150\*20180309 | Start period |
| DTM\*151\*20180409 | End period |
| REF\*MT\*KH015 | Meter Type |
| REF\*6W\*1 | DELIVERED Channel ID |
| QTY\*QD\*76.00000000\*KH | Consumption |
| DTM\*582\*20180309\*0015\*ES | End date and time of the period for which the quantity is provided. |
| QTY\*QD\*16.80000000\*KH | Consumption |
| DTM\*582\*20180309\*0030\*ES | End date and time of the period for which the quantity is provided. |
| QTY\*QD\*73.60000000\*KH | Consumption |
| DTM\*582\*20180309\*0045\*ES | End date and time of the period for which the quantity is provided. |
| **…Continued until the end of the reporting period** |  |
| **PTD\*BQ** | Account Services Detail loop – **Generation Loop (RECEIVED KH)** |
| DTM\*150\*20180309 | Start period |
| DTM\*151\*20180409 | End period |
| REF\*MT\*KH015 | Meter Type |
| REF\*6W\*2 | RECEIVED Channel ID |
| QTY\*QD\*6.00000000\*KH | Generation |
| DTM\*582\*20180309\*0015\*ES | End date and time of the period for which the quantity is provided. |
| QTY\*QD\*6.80000000\*KH | Generation |
| DTM\*582\*20180309\*0030\*ES | End date and time of the period for which the quantity is provided. |
| QTY\*QD\*3.60000000\*KH | Generation |
| DTM\*582\*20180309\*0045\*ES | End date and time of the period for which the quantity is provided. |
| **…Continued until the end of the reporting period** |  |
| **PTD\*FG** | Scheduling Determinants Loop |
| REF\*BF\*68 | Bill Cycle |
| REF\*LO\*RESNH | LDC Load Profile |
| REF\*NH\*ME-RSD | LDC Rate Class |
| REF\*SV\*Secondary, voltage unknown | Service Voltage  |
| REF\*LF\*1.071800 | Loss Factor  |
| QTY\*KC\*2.5369000\*K1 | Peak Load Contribution  |
| DTM\*007\*\*\*\*RD8\*20180601-20190531 | Effective Date of Peak Load Contribution |
| QTY\*KC\*2.3475000\*K1 | Peak Load Contribution  |
| DTM\*007\*\*\*\*RD8\*20190601-20200531 | Effective Date of Peak Load Contribution |
| QTY\*KZ\*3.3045000\*K1 | Network Service Peak Load |
| DTM\*007\*\*\*\*RD8\*20190601-20200531 | Effective Date of Network Service Peak Load |

# Example: Pennsylvania 867 Historical Interval Usage - Multiple interval data increments in same service period. (ACCOUNT Level)

Interval Increment Change on 6/5/2008

|  |  |
| --- | --- |
| BPT\*52\*2008070112300001\*20080701\*C1 | Transaction Set Purpose Code: **52**, *Response to Historical Inquiry*Reference Identification: **2008070112300001,** Transaction Date: **20080701,** 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 | 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 interval readings (one for each month or interval increment) |
| DTM\*150\*20080529 | Service Period Start |
| **DTM\*328\*20080605** | **Interval Increment Change Date** |
| **REF\*MT\*KH060** | **Meter Type (Interval Increment)** |
| 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\*20080605\*1000\*ED | End date and time of the period for which the quantity is provided. |
| QTY\*QD\*730\*KH | Consumption |
| DTM\*582\*20080605\*1100\*ED | End date and time of the period for which the quantity is provided. |
| **PTD\*BQ** | Summary loop for interval readings (one for each month or interval increment) |
| **DTM\*328\*20080605** | **Interval Increment Change Date** |
| DTM\*151\*20080630 | Service Period End |
| **REF\*MT\*KH030** | **Meter Type (Interval Increment)** |
| QTY\*QD\*112\*KH | Consumption |
| DTM\*582\*20080605\*1130\*ED | End date and time of the period for which the quantity is provided. |
| QTY\*QD\*128\*KH | Consumption |
| DTM\*582\*20080605\*1200\*ED | End date and time of the period for which the quantity is provided. |
| QTY\*QD\*216\*KH | Consumption |
| DTM\*582\*20080605\*1230\*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\*2330\*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 interval readings |
| DTM\*150\*20080701 | Service Period Start |
| DTM\*151\*20080731  | Service Period End |
| REF\*MT\*KH030 | Meter Type |
| QTY\*QD\*102\*KH | Consumption  |
| DTM\*582\*20080701\*0030\*ED | End date and time of the period for which the quantity is provided. |
| QTY\*QD\*233\*KH | Consumption |
| DTM\*582\*20080701\*0100\*ED | End date and time of the period for which the quantity is provided. |
| QTY\*QD\*416\*KH | Consumption |
| DTM\*582\*20080701\*0130\*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\*20080731\*2330\*ED | End date and time of the period for which the quantity is provided. |
| QTY\*QD\*700\*KH | Consumption |
| DTM\*582\*20080731\*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\*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 |