**Pennsylvania**

**New Jersey**

**Delaware**

**Maryland**

**Implementation**

**Guideline**

For

Electronic Data Interchange

###### TRANSACTION SET

**867**

**Monthly Usage**

**Ver/Rel 004010**

#

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|  |  | Summary of Changes |
| June 29, 1999Version 1.0  |  | Initial Release. Changes since last draft:* Changed “EGS” to “ESP” and “EDC” to “LDC” throughout the guideline. Removed “NJ Definitions” and replaced it with “LDC Definitions” and “ESP Definitions” in the Notes section.
* Added “How to use the implementation guideline” page. In addition, changed all headers to the true X12 definition. Also corrected the Table on Page 4 to reflect X12 definitions and added the words "X12 Structure” to the title on that page.
 |
| July 1, 1999Version 1.1 |  | * Removed Code 77 from the BPT07 and modified code F to indicate that it is used when the customer account finals in addition to if the customer switched to a new ESP.
* Clarified that Document Due Date is not provided for cancel transaction.
* Added “Must Use” to MEA07 per the data dictionary.
* Added “… if the LDC reads the meter” to the requirements for the PTD\*BB Loop.
 |
| October 1, 1999Version 1.1a |  | * Add Delaware Use for Delmarva
* Add BPT04 code to indicate this is for Summary Data only for an Interval customer.
* Added clarification to use of DTM\*649 to indicate it should only be used for Bill Ready. It is not valid for Rate Ready or Dual Billing.
 |
| November 4, 1999Version 1.2 |  | This is a FINAL version for Pennsylvania and New Jersey |
| November ??, 1999Draft version 1.2MD1 |  | * Add Maryland use to document – the changes were added to the version 1.2 of the regional standards
* Added Table of Contents
* Added Data Dictionary
 |
| December 23, 1999Version 1.2MD2 |  | * Clarified use of X4 code for Maryland
* Noted that BGE can only provide billed demand
 |
| January 17, 2000Version 1.2MD3 |  | * Clarified setting of DTM\*649 for ESP consolidated bill
* Clarified REF\*45 is only used when LDC sends transaction.
 |
| April 20, 2000Version 1.2MD4 |  | * Clarified APS use of REF\*45 in MD
* Incorporate PA Change Control X015 to add X5 as a valid value for BPT04
* Removed comment on mandatory use of PTD\*BD loop for PA by 3/2000. This is being discussed as part of PA Change Control X018. While it is not determined if there are cases when this loop may be needed, it was agreed that it will not be mandatory by 3/2000.
* Add PA Notes Section
* Add MD Notes Section
 |
| May 17, 2000Version 1.2MD5 |  | * Incorporate PA Change Control X023 – allow PM loop to be optional on a cancellation
 |
| May 30, 2000Version 1.2MD6 |  | * Incorporate PA Change Control X018 – remove BD loop. PA decided this loop would not be used, and PA was the only state that intended to use this loop.
 |
| June 26, 2000Version 1.2MD7 |  | * Added clarity to Meter Multiplier and Transformer Loss Multiplier definitions in Data Dictionary
* Added clarity to example titles
 |
| August 14, 2000Version 1.2MD8 |  | * Add NJ Notes Section
* Add Note for PSE&G on BPT07
* Added NJ Note for MEA05
 |
| September 10, 2000Version 1.3 |  | This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware (Delmarva only). |
| October 19, 2001Version 1.3rev01 |  | * Incorporate Delaware Electric Coop (DEC) information for Delaware
 |
| December 13, 2001Version 1.3rev02 |  | * Incorporate PA Change Control 038 – change all references of PPL to PPL EU.
* Add clarification to NJ Notes section for PSE&G regarding support of detail interval data (summary level not an option). Also add PSE&G clarification on cancel / rebills for supplier other than supplier of record. Remove note indicating PSE&G does not support cross reference to the 810.
 |
| January 9, 2002Version 2.0 |  | * Incorporate SMECO specific data for MD (MD Change Control 003)

This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware. |
| January 20, 2006Version 2.0.1D |  | 1. Incorporate NJ Change Control 005 (NJ CleanPower program changes)
2. Incorporate PA Change Control 039 to reflect “generated usage”
3. Incorporate NJ Change Control 006 to reflect current operations
 |
| October 23, 2006Version 2.0.2D |  | * Incorporate NJ Change Control 008 to reflect NJ CleanPower – unmetered usage for RECO)
1. Incorporate NJ Change Control 009 to reflect NJ CleanPower change for partial usage.
2. Add clarifying notes for NJ Net Metering.
 |
| February 12, 2007Version 2.0.3F |  | * Considered FINAL for PA and NJ
 |
| February 22, 2009Version 2.0.4D |  | * Incorporate NJ Change Control PSEG-E-Ref45
 |
| January 24, 2010Version 2.1 |  | This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware. |
| September 8, 2010Version 2.1.1D |  | * Incorporate PA Change Control 060 – (PA Admin/Cleanup)
* Incorporate MD Change Control – Admin (Admin/Cleanup for MD)
 |
| February 28, 2011Version 3.0 |  | This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware. |
| February 16, 2012Version 3.01 |  | * Incorporate PA Change Control 093 (Admin Changes)
* Incorporate MD Change Control 010 (PEPCO AMI/Smart Meter support)
 |
| March 8, 2013Version 6.0 |  | * Moving to v6.0 to align versions across all transaction sets
* Cleaned up references to Allegheny and APS throughout document
* Incorporated PA Change Control 103 (uniform net meter consumption reporting)
 |
| March 17, 2014Version 6.1 |  | * Incorporate PA Change Control 105 Update2 (clarify net meter bank rollover)
* Incorporate PA Change Control 111 (clarify PECO use of BPT04)
* Incorporate PA Change Control 116 (update DLCO net meter looping)
* Incorporate MD Change Control 018 (clarify multiple meter exchanges)
* Incorporate MD Change Control 025 (867MU changes in PHI new CIS)
* Incorporate MD Change Control 028 (BGE support interval usage via EDI)
* Incorporate MD Change Control 029 (uniform net meter data reporting)
* Incorporate NJ Change Control Electric 016 (uniform net meter data reporting)
* Incorporate NJ Change Control Electric 020 (ACE new CIS; 867MU changes)
* Incorporate NJ Change Control Electric 031 (RECO removal from IG)
 |
| February 18, 2015Version 6.2 |  | * Incorporate MD Change Control 036 (clarify net meter customer excess generation)
 |
| February 5, 2016Version 6.3 |  | * Incorporate PA Change Control 127 (Clarify PA Notes for net meter bank rollover)
* Incorporate MD Change Control 039 (BGE net meter data reporting)
* Incorporate MD Change Control 042 (Clarify MD Notes for net meter bank rollover)
 |
| March 14, 2017Version 6.4 |  | * Incorporate MD Change Control 048 (clarify Billed Demand reporting)
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|  |  | General Notes |
| PTD Loops Definition |  | The PTD Loops are required. Some are used individually, others are used in pairs. This section describes the purpose of each PTD loop. Depending on the characteristics of the account, there may be a different number of loops.**Monthly Billed Summary Information (PTD=BB):** This loop is always required for every type of account if the LDC reads the meter.**Monthly Billed Summary (PTD01=BB)**: One PTD per Account – Data obtained from the billing system to reflect the billing data for this account.**Metered Services Information** (PTD01 = SU and PM) – These loops are used to convey the usage for metered data, at both a detail level by meter by unit of measure (PTD01=PM) and for some units of measure, at a summary level for all meters (PTD01=SU).**Metered Services Summary (PTD01=SU)**: Summing to the account level by kWh and KVARH. Data is obtained from the metering system. For every PTD01=SU, there must be a PTD01=PM. The PTD01=SU loop will NEVER be provided for kW or KVAR.**Metered Services Detail (PTD01=PM)**: One or more PTDs, one for each unit of measure for each meter. Data is obtained from the metering system. In the case of one meter reporting one unit of measure (kWh), the PTD01=PM will be the same as the PTD01=SU and both must be provided. If you have two meters and each meter measures kW and kWh, you will send one PTD SU Loop. The kWh readings from Meter 1 and Meter 2 will be summed and provided in one PTD SU Loop.**Unmetered Services Information** (PTD01 = BC) – This loop is used to convey the usage for any unmetered portion of an account. This information must be provided at the summary level (PTD01=BC).**Unmetered Services Summary (PTD01=BC)**: Total Consumption for all unmetered services at the account level. Even though some of the consumption may be estimated, the consumption is reported as actual for unmetered services. The summary is required at this time for Unmetered Services. |
| Cancellations |  | * The MEA is an optional segment on a cancellation.
* Cancel 867s will be by metering period, i.e. same as the original 867’s. Rebills may be for multiple periods.
* The “from” and “to” dates on the cancel must match exactly with the original usage.
* On a cancellation, the signs are not reversed (don’t change positive usage to negative usage). Quantities will not be negative on Cancels. Cancels should be interpreted as negative consumption.
* The consumption sent in the cancel must match the consumption sent in the original transaction.
* Cancels must be sent at the same level of detail as the original usage.
* PA: Cancels must include all account and summary information, however, it is optional to include the PM loops.
 |
| Restatements |  | * In order to restate usage for a period, the metering party must first completely cancel all usage for that period; then send the full set of restatement transactions.
* If you receive a cancellation, you will not necessarily receive a restatement (i.e. if the data was sent to you in error in the first place).
* The “from” and “to” dates on the restatement transactions do not have to match the corresponding original or cancel transactions for the same period.
* Restatements across multiple cycles may match original from and to dates or may cross bill cycles.
* An 867 cancel can be followed by an 867 original the next month. The metering period would include the metering period from the cancelled and the current usage.
 |
| Reporting of usage if supplier is not providing 100% of generation |  | The usage information provided in the 867 is the total usage not the prorated information. Meter reading party will always send total consumption rounded to nearest kWh. |
| 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:1. GPM – Green Power Marketer (New Jersey)

**Note:** The transaction will either have an ESP or a Renewable Energy Provider, but not both. |
| Cross Reference Number between 867, 810, and 820 |  | There is a cross reference between billing related documents. * 867 – BPT02 – This document establishes the cross reference number.
* 810 – BIG05 – This document must have the cross reference number from the respective 867.
* 820 – REF6O (letter O) – When making the other party whole, the 820 to the non-billing party must also include the cross reference number from 867/810 document.
 |
| Total Usage is sent, even if supplier is not providing 100% of load. |  | The usage information provided in the 867 is the total usage not the prorated information. Meter reading party will always send total consumption rounded to nearest kWh. It is the obligation of the receiving party to apply their participation percentage to the total provided to determine their actual obligation. If the decimal is .50000 or less, it will go to the lower whole number; if the decimal is .50001 or greater, it will go to the next higher whole number ). |
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|  |  | Pennsylvania Notes |
| **What document is sent if supplier elects NOT to receive detail interval data?****Requirements for uniform support of Net Metered Customers:** |  | If a supplier elects to receive only summary level information for an interval account, they will receive an 867MU document.The 867IU document will be used when interval detail and summary level data is being sent.**Pennsylvania**:* Duquesne – Will provide detail interval data using 867IU with BB, SU, and BQ loops. If summary level is requested, will provide an 867MU with BB, SU, and PM loops (BPT04 will be “X5”).
* FIRST ENERGY – Will provide detail interval data using 867IU with BB, SU, and BQ loops. If summary level is requested, will provide an 867MU with BB, SU, and PM loops (BPT04 will be “X5”).
* PECO – If account-level interval detail is requested, will provide using 867IU with BB, SU, and BQ loops. If meter-level interval detail is requested, will provide using BB, BO, and PM loops. Else, will provide an 867MU with BB, SU, and PM loops (BPT04 in 867MU will be “DD” for AMR monthly metered accounts and “X5” for interval metered accounts).
* PPL EU – Will provide detail interval data using 867IU with BB, SU, and BQ loops. If summary level is requested, will provide an 867MU with BB and SU loops (BPT04 will be “DD”)
* UGI – No interval customers.
* BB (Billed Summary) Loop –reports the monthly billed summary usage for net metered customers.
1. When customer’s consumption is greater than generation, the billed KH usage in the QTY02 will be reported as net KH (generation subtracted from total consumption).
2. When customer’s generation is greater than consumption, the billed usage in the QTY02 will be reported as 0 (zero) KH.
3. In either scenario, the QTY02 will never be signed negative.
* SU (Metered Services Summary) Loop –reports the summary usage for net metered customers.
1. When the customer’s consumption is greater than generation, 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, 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.
 |
| **Requirements for uniform support of Net Metered Customers****(continued):****Banked KH adjustment for excess customer generation:** |  | * PM (Meter Services Detail) Loop – The meter loop will report the meter level detail for net metered customers. This may be done via one of the three following configurations:
1. Single meter reporting both in and out flow. The PM loop for KH will be repeated, one reporting consumption and one reporting generation. Used by First Energy and PPL (MV90 only).
	1. The meter number will be identical for each loop.
	2. In the consumption loop, the meter role (REF\*JH) will be ‘A’ (additive) and the KH usage will be reported in quantity delivered (actual = QD or estimated = KA).
	3. In the generation loop, the meter role (REF\*JH) will be ‘S’ (subtractive) and the KH usage will be reported as net generation delivered (actual = 87 or estimated = 9H).
	4. The QTY02 will never be signed negative
	5. Being this is a single meter, the meter attributes will remain the same for both PM loops.
2. Single meter reporting only the net consumption, one PM loop for KH. Used by PPL (non-MV90) and Duquesne Light
	1. When customer’s consumption is greater than generation, the billed KH usage in the QTY02 will be reported as net KH (generation subtracted from total consumption). The meter role (REF\*JH) will be ‘A’ (additive).
	2. When customer’s generation is greater than consumption, the KH usage will be reported as net generation delivered (actual = 87 or estimated = 9H). The meter role (REF\*JH) will be ‘S’ (subtractive).
	3. The QTY02 will never be signed negative.
3. Separate meters, one reporting inflow and another meter reporting outflow. The PM loop will be repeated for KH, one meter reporting consumption and one meter reporting generation. Used by PECO and UGI.
	1. The meter number should be unique for each KH loop. The meter attributes for each KH loop may have different values.
	2. In the consumption loop, the meter role (REF\*JH) will be ‘A’ (additive) and the KH usage will be reported in quantity delivered (actual = QD or estimated = KA).
	3. In the generation loop, the meter role (REF\*JH) will be ‘S’ (subtractive) and the KH usage will be reported as net generation delivered (actual = 87 or estimated = 9H).
	4. The QTY02 will never be signed negative.

Applies to FirstEnergy companies, PPLEU, Duquesne and UGI (PECO does NOT bank excess customer generation)The LDC will apply excess generation KH from a prior month(s) into the billed quantity (D1) segment of the billed summary (BB) loop of the 867MU/IU transaction sets reducing billed consumption. When this occurs, the sum of the metered services (PM) loops will not equal the KH being reporting in the BB loop. In the event the banked KH is not exhausted it will carry over to the following month. Suppliers should understand this practice and examine current billing processes for net metered customers. In most cases, the customer’s actual consumption and generation is made available in the PM (meter) loops of the 867MU/IU.Settlement process for excess customer generation varies by EDC. EGSs should contact each EDC directly to obtain this information. |

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|  |  | New Jersey Notes |
| **Rockland Electric Company****What document is sent if supplier elects NOT to receive detail interval data?** |  | Rockland Electric Company (RECO) does not utilize this EDI implementation guideline. RECO uses the New York EDI implementation guidelines.The standard method for interval accounts is to always pass interval data. * JCP&L – JCP&L will allow the summary option under the same guidelines they use in PA. JCP&L will provide detail interval data using 867IU with BB, SU, and BQ loops. If summary level is requested, will provide an 867MU with BB, SU, and PM loops (BPT04 will be “X5”).
* Atlantic City Electric will allow a summary option. Atlantic City Electric will provide detail interval data using 867IU with BB, SU, and BQ loops. If summary level is requested, will provide an 867MU with BB, SU, PM, and BC loops. (BPT04 will be “X5”)
* PSE&G will not support supplier having a choice to receive summary only.
 |
| **Cancel / Rebill when supplier is no longer active supplier****Net Metering Information:** |  | PSE&G cannot provide consolidated billing for ESP’s who are not supplier of record at the time the cancel / rebill is processed. The process for Cancel/ Rebill for an ESP who is not customer’s current supplier of record is:* PSE&G will cancel charges from 810(s) that correspond to the original 867(s) being canceled.
* Send 867(s) cancel
* Send 867(s) rebill noting that customer billing option is DUAL.
* PSE&G will issue an 820 and reduce a future payment by the amount of the canceled 810(s) (on the scheduled date of the 820).
* TPS must Dual bill customer for the rebilled 867(s).

PSE&G- Is currently using a bi-directional meter for the TPS's and providing the in reading as well as the out reading to the EDI process. For Clean Power suppliers a watt-hour meter which goes both ways ultimately provides the net usage to the EDI process.Atlantic City Electric- Is currently using watt-hour meters that go both ways ultimately providing the net usage to the EDI process. This is for both the TPSs as well as the Clean Power providers.JCP&L-Is currently using a bi-directional meter for both the TPS's as well as the Clean Power suppliers. The bi-directional meter is providing the in and the out reading to the EDI process. The EDI summary loop will include the net usage. |
| **Data Requirements for uniform support of Net Metered Customers:** |  | NJ EDI Change Control Electric 016 mandates specific data requirements in support of net metered customers. Implementation by utility as follows…* Atlantic City Electric – with new CIS (est. early 2015)
* JCP&L – 4Q 2014 (867MU/HU) and 1Q 2015 (867IU)
* PSE&G – currently supported, see below for additional PSE&G notes
* BB (Billed Summary) Loop –reports the monthly billed summary usage for net metered customers.
1. When customer’s consumption is greater than generation, the billed KH usage in the QTY02 will be reported as net KH (generation subtracted from total consumption).
2. When customer’s generation is greater than consumption, the billed usage in the QTY02 will be reported as 0 (zero) KH.
3. In either scenario, the QTY02 will never be signed negative.
* SU (Metered Services Summary) Loop –reports the summary usage for net metered customers.
1. When the customer’s consumption is greater than generation, 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, 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.
* PM (Meter Services Detail) Loop – The meter loop will report the meter level detail for net metered customers. This may be done via one of the three following configurations:
1. Single meter reporting both in and out flow. The PM loop for KH will be repeated, one reporting consumption and one reporting generation. Used by Atlantic City Electric and PSE&G (Note: PSE&G sends one PM loop with separate QTY segments reporting generation and consumption)
	1. The meter number will be identical for each loop. (Note: PSE&G sends one PM loop)
	2. In the consumption loop, the meter role (REF\*JH) will be ‘A’ (additive) and the KH usage will be reported in quantity delivered (actual = QD or estimated = KA). (PSE&G sends meter role of ‘A’)
	3. In the generation loop, the meter role (REF\*JH) will be ‘S’ (subtractive) and the KH usage will be reported as net generation delivered (actual = 87 or estimated = 9H). (N/A to PSE&G)
	4. The QTY02 will never be signed negative
	5. Being this is a single meter, the meter attributes will remain the same for both PM loops. (PSE&G sends one PM loop)
2. Single meter reporting only the net consumption, one PM loop for KH. (Used by JCP&L and Atlantic City Electric)
	1. When customer’s consumption is greater than generation, the billed KH usage in the QTY02 will be reported as net KH (generation subtracted from total consumption). The meter role (REF\*JH) will be ‘A’ (additive).
	2. When customer’s generation is greater than consumption, the KH usage will be reported as net generation delivered (actual = 87 or estimated = 9H). The meter role (REF\*JH) will be ‘S’ (subtractive).
	3. The QTY02 will never be signed negative.
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| **Data Requirements for uniform support of Net Metered Customers (Continued):** |  | 1. Separate meters, one reporting inflow and another meter reporting outflow. The PM loop will be repeated for KH, one meter reporting consumption and one meter reporting generation.
	1. The meter number should be unique for each KH loop. The meter attributes for each KH loop may have different values.
	2. In the consumption loop, the meter role (REF\*JH) will be ‘A’ (additive) and the KH usage will be reported in quantity delivered (actual = QD or estimated = KA).
	3. In the generation loop, the meter role (REF\*JH) will be ‘S’ (subtractive) and the KH usage will be reported as net generation delivered (actual = 87 or estimated = 9H).
	4. The QTY02 will never be signed negative.
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|  |  | Maryland Notes |
| **What document is sent if supplier elects NOT to receive detail interval data?****Looping of DTM segments in the PM (meter) loop when multiple meter exchanges occur during the same service period****Requirements for uniform support of Net Metered Customers:****Demand Reporting – Multiple suppliers during same billing period** |  | If a supplier elects to receive only summary level information for an interval account, they will receive an 867MU document.With PHI new CIS, the ‘SI’ process will be supported by ALL interval metered accounts, not just those with smart meters.**Note**: BGE – The default is that an ESP will receive interval data at the summary level only (BPT04 = DD)1. If an ESP wants to receive interval data at the detail level for AMI/Smart metered accounts, the ESP must submit “SI” in the LIN05 and “DETAIL” in the REF17.
2. The ESP may request detail level interval data post enrollment by submitting a Change Request at a later date.
3. For non-AMI/Smart metered interval accounts, the ESP will receive 867MU with the detail interval data posted to BGE’s website.

If a supplier elects to receive detail and summary level information for an interval account, this is what they will receive, by utility.* Delmarva & PEPCO – Supplier will receive 867IU for all accounts (unless supplier has requested summary data. If the supplier elects NOT to receive detail interval data, PHI will send EDI 867MU (BB/SU/PM/BC loops) with BPT04 = ‘X5’ for accounts the supplier requested summary interval usage. BG&E – For AMI/Smart metered accounts, will provide 867IU if requested as stated above. For non-AMI/Smart metered accounts, no 867IU will be sent. Interval data will be provided on web; however, an 867MU will be provided for the Summary data.
* Potomac Edison – Will provide detail interval data using 867IU with BB, SU, and BQ loops. If summary level is requested, will provide an 867MU with BB, SU, and PM loops (BPT04 will be “X5”).

If the event the utility experiences multiple meter exchanges during the same service period, the following format applies.867MU – PTD\*PM Loop – Position 020DTM\*150\*20130114 – Service Period StartDTM\*514\*20130117 – First Meter Exchange on 1/17/2013DTM\*514\*20130117DTM\*514\*20130119 – Second Meter Exchange on 1/19/2013DTM\*514\*20130119DTM\*151\*20130213 – Service Period EndSample provided in the back of this implementation guideline.* BB (Billed Summary) Loop –reports the monthly billed summary usage for net metered customers.
1. When customer’s consumption is greater than generation, the billed KH usage in the QTY02 will be reported as net KH (generation subtracted from total consumption).
2. When customer’s generation is greater than consumption, the billed usage in the QTY02 will be reported as 0 (zero) KH.
3. In either scenario, the QTY02 will never be signed negative.
* SU (Metered Services Summary) Loop –reports the summary usage for net metered customers.
1. When the customer’s consumption is greater than generation, 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, 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.
* PM (Meter Services Detail) Loop – The meter loop will report the meter level detail for net metered customers. This may be done via one of the three following configurations:
1. Single meter reporting both in and out flow. The PM loop for KH will be repeated, one reporting consumption and one reporting generation. (Delmarva, PEPCO)
	1. The meter number will be identical for each loop.
	2. In the consumption loop, the meter role (REF\*JH) will be ‘A’ (additive) and the KH usage will be reported in quantity delivered (actual = QD or estimated = KA).
	3. In the generation loop, the meter role (REF\*JH) will be ‘S’ (subtractive) and the KH usage will be reported as net generation delivered (actual = 87 or estimated = 9H).
	4. The QTY02 will never be signed negative
	5. Being this is a single meter, the meter attributes will remain the same for both PM loops.
2. Single meter reporting only the net consumption, one PM loop for KH. (Potomac Edison& BGE non-Time of Use. See below for BGE Time of Use reporting))
	1. When customer’s consumption is greater than generation, the billed KH usage in the QTY02 will be reported as net KH (generation subtracted from total consumption). The meter role (REF\*JH) will be ‘A’ (additive).
	2. When customer’s generation is greater than consumption, the KH usage will be reported as net generation delivered (actual = 87 or estimated = 9H). The meter role (REF\*JH) will be ‘S’ (subtractive).
	3. The QTY02 will never be signed negative.
3. Separate meters, one reporting inflow and another meter reporting outflow. The PM loop will be repeated for KH, one meter reporting consumption and one meter reporting generation.
	1. The meter number should be unique for each KH loop. The meter attributes for each KH loop may have different values.
	2. In the consumption loop, the meter role (REF\*JH) will be ‘A’ (additive) and the KH usage will be reported in quantity delivered (actual = QD or estimated = KA).
	3. In the generation loop, the meter role (REF\*JH) will be ‘S’ (subtractive) and the KH usage will be reported as net generation delivered (actual = 87 or estimated = 9H).
	4. The QTY02 will never be signed negative.

The following describes each utility’s process for reporting Demand (K1) when multiple suppliers serve the same customer during the same billing period. **BGE**The demands passed in each 867MU/IU reflects the highest demand values that occurred during each supplier’s sub-period, NOT the entire billing period. Demand values for each sub-period are NOT prorated.BB Loop / QTY\*D1 - The highest overall demand (regardless of TOU Peak) that occurred in the supplier's sub-period. Although coded "D1", this may not be the highest overall demand billed by BGE for the entire billing period.BB Loop / QTY\*QD - The highest recorded On Peak demand that occurred in the supplier's sub-period (This may or may not be the highest overall billed "D1" demand).**Potomac Edison (FirstEnergy)**Will send the peak demand for the entire billing period in all 867s created for the period. If the customer’s peak demand is 10.4 K1 for the whole billing period, all suppliers would receive 10.4K1 in their 867. **PHI (Delmarva MD & PEPCO MD)**Will prorate demand for the entire period based on the number of days served by the supplier. If max demand for entire period is 90 and one supplier serves 15/30 days, PHI will send that supplier 45, if another supplier serves 10/30 days, will send that supplier 30, and if utility has remaining 5/30 days, they will have 15.  PHI will implement this to be consistent with all meter types and to ensure the customer is never charged more than the maximum. |

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| **Requirements for BGE non-residential Time of Use (TOU) Net Metered Customers:** |  | BGE non-residential Time of Use (TOU) only, refer to above section for non-TOU customer net metering data reporting requirements. Samples provided in the back of this implementation guideline.BGE’s process ‘trues up’ customer net metering bank(s) upon supplier switch. BGE is settling on the KH value in the BB (billed) loop at PJM. BGE maintains a ‘bank’ for each TOU reading. When a customer’s TOU reading for the month is generation it is placed into the bank. Once the TOU reading for the month is positive consumption, BGE will apply the bank. This process is not shown in the PM loop, as the PM loop is reporting meter readings not billing adjustments.BB (Billed Summary) Loop –reports the monthly billed summary usage for net metered customers. 1. BGE will bill all positive consumption for each TOU reading minus any banked excess generation.
2. The QTY02 will never be signed negative.

SU (Metered Services Summary) Loop –reports the summary usage for net metered customers. This reports the customer’s net usage for the billing period.1. When the customer’s consumption is greater than generation, 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, 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.

PM (Meter Services Detail) Loop – The meter loop reports the meter level detail for TOU net metered customers from the metering system. Single meter reporting On-Peak, Off-Peak and Intermediate-Peak Time TOU in one PM loop. 1. The meter role (REF\*JH) will always report as additive (REF\*JH\*A) regardless if any generation is reported in the PM loop.
2. Each TOU reading may be reported as consumption (QTY01 w/actual = QD or estimated = KA) or generation (QTY01 w/actual = 87 or estimated = 9H) based on the usage. Note the TOU readings in the PM loop will not be based on the meter role, there will be cases where at least one TOU is generation and the meter role is ‘Additive’.
3. The QTY02 will never be signed negative
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| **Net Metering – Excess Customer Generation****Net Metering – banked KH adjustment for excess customer generation** |  | Maryland legislation PUA 7-306 states the Electric Company, not the Electricity Supplier, must pay the customer for accrued net excess generation on an annual basis (April meter read). Furthermore the rule states… *“For customers served by an electricity supplier, the dollar value of the net excess generation shall be equal to the generation or commodity rate that the customer would have been charged by the electricity supplier multiplied by the number of kilowatt–hours of net excess generation.”* To support this requirement, each LDC maintains customer generation balance and for any excess generation during the annual true-up, the customer is credited based on their LDC or EGS rate.Applies to Potomac Edison, BG&E, Delmarva MD and PEPCO MDThe LDC will apply excess generation KH from a prior month(s) into the billed quantity (D1) segment of the billed summary (BB) loop of the 867MU/IU transaction sets reducing billed consumption. When this occurs, the sum of the metered services (PM) loops will not equal the KH being reporting in the BB loop. In the event the banked KH is not exhausted it will carry over to the following month. In conjunction with Maryland excess generation rules, the EGS should understand this banked rollover practice and examine current billing processes for net metered customers. Example of banked KH adjustment (non-TOU customers)…Month 1 – Customer consumes 200KH and generates 500KH, net is excess generation of 300KH. The utility sends 0KH in BB loop. Supplier would bill customer 0 KHMonth 2 – Customer consumes 500KH and generates 150KH, net is consumption of 350KH. The utility rolls banked excess of 300KH from prior month and applies to current month bill. Utility and supplier bill customer for 50KH (350KH – 300KH) Settlement process for excess customer generation varies by LDC. Suppliers should contact each LDC directly to obtain this information. |

# How to Use the Impementation 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 |

**867 Product Transfer and Resale Report**

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.

# 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 |  |  |  |  |  |  |  |  |
|  | 050 | DTM | Date/Time Reference | O | 10 |  |  |  |  |  |  |  |  |
|  | 075 | MEA | Measurements | O | 20 |  |  |  |  |  |  |  |  |
|  |  |  | 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**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | 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 |  |  |  |  |  |  |  |  |
|  | 160 | MEA | Measurements | O | 40 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Summary:**

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

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

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Must Use | 030 | SE | Transaction Set Trailer | M | 1 |  |  |  |  |  |  |  |  |

#  Data Dictionary for 867 Monthly Usage

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| ***867 Monthly Usage*** |
| ***Appl Field*** | ***Field Name*** | ***Description*** | ***EDI Segment*** | ***Related EDI Qualifier*** | ***Data Type*** |
| Header Information |
| 1 | Purpose Code | **00 –** Original**01 –** Cancellation – Cancels an entire Usage | BPT01 |  | X(2) |
| 2 | Transaction Reference Number  | Unique Number identifying this transaction assigned by the sender of the transaction. This number should be unique over all time. This number will also be shown on the related 810 document (both Bill Ready and Rate Ready), and for cases where the billing party makes the other party whole, on the 820 document. | BPT02 |  | X(30) |
| 3 | System Date | Date that the data was processed by the sender’s application system. | BPT03  |  | 9(8) |
| 4 | Report Type Code | “DD” Monthly Usage“X4” Summarized data for interval account at account level“X5” Summarized data for interval account at meter level“KJ” Meter Changeout when Meter Agent Changes – Monthly Usage (used to tell the receiver that this is a partial usage statement. The billing agent must sum the KJ usage and the DD usage to calculate the bill.) | BPT04 | BPT01 | X(2) |
| 5 | Final Indicator | Indicates if this is a final reading for that particular ESP (e.g., customer moves, customer switches, etc.). | BPT07 = **F** |  | X(1) |
| 6 | Transaction Reference Number  | Transaction Reference Number echoed from BPT02 of the Original Transaction  | BPT09 |  | X(30) |
| 7 | Document Due Date/Time | The last date/time that information will be accepted by the billing party for processing the bill.If 810 is received after this date/time, and the billing party cannot process it, they must notify the non-billing party (via email, phone call, etc.) | DTM02 (CCYYMMDD) and DTM03(HHMM) | DTM01= **649** | DTM02= 9(8) and DTM03= 9(4) |
| 8 | Percent Participation | Used to express the percentage of the total load that is being supplied by the ESP. This is the multiplication of two fields that are on the 814 transaction, AMT\*7N (Participating Interest) and AMT\*QY (Eligible Load).  | MEA03 | MEA02 = **NP** | 9(1).99999 |
| 9 | LDC Name | LDC’s Name | N102 | N1: N101 = **8S** | X(60) |
| 10 | LDC Duns | LDC’s DUNS Number or DUNS+4 Number | N104 | N1: N101 = **8S**N103 = **1** or **9** | X(13) |
| 11 | ESP Name | ESP’s Name | N102 | N1: N101 = **SJ** | X(60) |
| 12 | ESP Duns | ESP’s DUNS Number or DUNS+4 Number | N104 | N1: N101 = **SJ**N103 = **1** or **9** | X(13) |
| 12.3 | Renewable Energy Provider Name | Renewable Energy Provider ‘s Name | N102 | N1: N101 = **G7** | X(60) |
| 12.4 | Renewable Energy Provider Duns | Renewable Energy Provider ‘s DUNS Number or DUNS+4 Number | N104 | N1: N101 = **G7**N103 = **1** or **9** | X(13) |
| 13 | Customer Name | Customer Name | N102 | N1: N101 = **8R** | X(60) |
| 14 | LDC Account Number | LDC Customer Account Number | REF02 | N1: N101\*8R LoopREF01 = **12** | X(30) |
| 14.2 | LDC Account Number - unmetered | LDC Customer Account Number – Unmetered  | REF03 | N1: N101 = **8R**REF01 = **12**REF03 = **U** | X(80) |
| 15 | Old Account Number | Previous LDC Customer Account Number | REF02 | N1: N101\*8R LoopREF01 = **45** | X(30) |
| 16 | ESP Account Number | ESP Customer Account Number | REF02 | N1: N101\*8R LoopREF01 = **11** | X(30) |
| 17 | Billing Type | Indicates type of billing- LDC consolidated Billing (REF02=LDC)- ESP consolidated Billing (REF02=ESP)- Dual bills (REF02=DUAL) | REF02 | LIN: REF01= **BLT** | X(4) |
| 18 | Billing Calculation Method | Indicates party to calculate bill. - LDC calculates bill (REF02=LDC)- Each calculate portion (REF02=DUAL) | REF02 | LIN: REF01= **PC** | X(4) |
| **Please refer to General Notes for details about the use of the PTD loop combinations.** |  |  |
| **Monthly Billed Summary - Loop Required if the LDC reads the meter** |
| This information is obtained from the billing system to reflect billing data for this account at the unit of measure level. |
| 19 | Product Transfer Type | Monthly Billed Summary | PTD01= **BB** |  | X(2) |
| 20 | Service Period Begin Date | Start date of the period for which the readings are provided  | DTM02 | DTM01 = **150** | 9(8) |
| 21 | Service Period End Date | End date of the period for which the readings are provided | DTM02 | DTM01 = **151** | 9(8) |
| 22 | Quantity Qualifier | Represents that the quantity was billed:**D1** - Billed | QTY01 |  | X(2) |
| 23 | Quantity Delivered - Billed kWh  | This data is taken from the LDC billing system and reflects the KWH amount on which the customer was billed.  | QTY02 | QTY01 | -9(10).9(4) |
| 24 | Quantity Delivered Unit of Measurement | Indicates unit of measurement for quantity of consumption delivered during service period. **KH** - Kilowatt Hours | QTY03 |  | X(2) |
| 25 | Quantity Qualifier | Represents that the quantity was billed:**D1** - Billed | QTY01 |  | X(2) |
| 26 | Quantity Delivered - Derived or Billed Demand | Demand for which the customer was actually billed at account level only. Derived or billed demand is different from measured demand because the result is based on contract demand or rate minimum demand. | QTY02 | QTY01 | -9(10).9(4) |
| 27 | Quantity Delivered Unit of Measurement | Indicates unit of measurement for quantity of consumption delivered during service period. **K1** - Demand (kW) | QTY03 |  | X(2) |
| 28 | Quantity Qualifier | Represents whether the quantity is actual or estimated:**KA** = Estimated Quantity Delivered**QD** = Actual Quantity Delivered | QTY01 |  | X(2) |
| 29 | Quantity Delivered - Measured or Registered Demand | Reflects what the meter actual shows (including all factors except Power Factor) and is provided at the account level only. | QTY02 | QTY01 | -9(10).9(4) |
| 30 | Quantity Delivered Unit of Measurement | Indicates unit of measurement for quantity of consumption delivered during service period. **K1** - Demand (KW) | QTY03 |  | X(2) |
| **Metered Services Summary - Loop required if there are metered services on the account** |
| 31 | Product Transfer Type | Metered Services Summary | PTD01= **SU**  |  | X(2) |
| 32 | Service Period Begin Date | Start date of the period for which the readings are provided  | DTM02 | DTM01 = **150** | 9(8) |
| 33 | Service Period End Date | End date of the period for which the readings are provided  | DTM02 | DTM01 = **151** | 9(8) |
| 34 | 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 | QTY01 |  | X(2) |
| 35 | Quantity Delivered | Represents quantity of consumption delivered for service period. Contains the difference in the meter readings multiplied by various factors, excluding Power Factor. | QTY02 | QTY01 | -9(10).9(4) |
| 36 | Quantity Delivered Unit of Measurement | Indicates unit of measurement for quantity of consumption delivered during service period. Only valid for KWH and KVARH. | QTY03 |  | X(2) |
| **Metered Services Detail - Loop Required if there are metered services on the account** |
| 37 | Product Transfer Type | Metered Services Detail | PTD01= **PM** |  | X(2) |
| 38 | Service Period Begin Date | Start date of the service period or start date of the changed in meter. | DTM02 | DTM01 = **150** | 9(8) |
| 39 | Service Period End Date | End date of the service period or end date of the changed out meter. | DTM02 | DTM01 = **151** | 9(8) |
| 40 | Meter Change Out Date | 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. | DTM02 | DTM01 = **514** | X(12) |
| 41 | Meter Number | Serial number of this specific meter (may have multiple meters) | REF02 | REF01 = **MG** | X(30) |
| 42 | LDC Rate Code | Code indicating the rate a customer is being charged by LDC per tariff. Codes posted on LDC's Web site | REF02 | REF01 = **NH** | X(30) |
| 43 | LDC Rate Subclass Code | Used to provide further classification of a rate. | REF02 | REF01= **PR** | X(30) |
| 44 | Meter Role | Effect of consumption on summarized total.**S** = Subtractive (consumption subtracted from summarized total).**A** = Additive (consumption contributed to summarized total - do nothing).**I** = Ignore (consumption did not contribute to summarized total - do nothing). | REF02 | REF01 = **JH**  | X(30) |
| 45 | Number of Dials / Digits and related decimal positions | Needed to determine usage if meter reading rolls over during the billing period. Number of dials on the meter displayed as the number of dials to the left of the decimal, a decimal point, and number of dials to the right of the decimal. | REF02 | REF01 = **IX** | 9.9 |
| 46 | 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 | QTY01 |  | X(2) |
| 47 | Quantity Delivered | 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. | QTY02 | QTY01  | 9(10).9(4) |
| 48 | Quantity Delivered Unit of Measurement | Indicates unit of measurement for quantity of consumption delivered during service period.  | QTY03 |  | X(2) |
| 49 | Measurement Reference Code | Code identifying category to which measurement applies. | MEA01 |  | X(2) |
| 50 | 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) |
| 51 | Unit of Measure | Unit of measure for readings. | MEA04 |  | X(2) |
| 52 | Beginning Reading | Value specifying beginning reading for the metering period. Factors have not been applied to this value. | MEA05 |  | 9(8).9(4)  |
| 53 | Ending/Single Reading | The ending reading or single reading for metering period. Factors have not been applied to this value. | MEA06 |  | 9(8).9(4)  |
| 54 | Measurement Significance Code | Code used to benchmark, qualify, or further define a measurement value.  | MEA07 |  | X(2) |
| 55 | Meter Multiplier | Meter Constant - used to represent how many units are reflected by one dial or digit increment. | MEA03 | MEA02 = **MU** | 9(9).9(4) |
| 56 | Power Factor | Relationship between watts and volt - amperes necessary to supply electric load | MEA03 | MEA02 = **ZA** | 9(9).9(4) |
| 57 | Transformer Loss Multiplier | Used when a customer owns a transformer and the transformer loss is not measured by the meter. Consumption figures from meter must be adjusted by this factor to reflect true end use consumption. | MEA03 | MEA02 = **CO** | 9(9).9(4) |
| **Unmetered Services Summary - Loop required if there are unmetered services on the account** |
| 58 | Product Transfer Type | Unmetered Services Summary | PTD01= **BC** |  | X(2) |
| 59 | Service Period Begin Date | Start date of the period for which the readings are provided  | DTM02 | DTM01 = **150** | 9(8) |
| 60 | Service Period End Date | End date of the period for which the readings are provided  | DTM02 | DTM01 = **151** | 9(8) |
| 61 | Quantity Qualifier | Represents that the quantity is actual:**QD** = Actual Quantity Delivered | QTY01 |  | X(2) |
| 62 | Quantity Delivered | Represents quantity of consumption delivered for service period. | QTY02 | QTY01 | 9(10).9(4) |
| 63 | Quantity Delivered Unit of Measurement | Indicates unit of measurement for quantity of consumption delivered during service period.  | QTY03 |  | 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:** |  | Required |
| **DE Use:** |  | Required |
| **MD Use:** |  | Required |
| **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:** |  | Required |
| **DE Use:** |  | Required |
| **MD Use:** |  | Required |
| **Examples:** |  | BPT\*00\*199902010001\*19990131\*DD BPT\*00\*199902010001\*19990131\*DD\*\*\*FBPT\*01\*199902020001\*19990131\*DD\*\*\*\*\*1999020100001 |

**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 |
|  | 00 |  | Original |
|  | Conveys original readings for the account being reported. |
|  | 01 |  | Cancellation |
|  | Indicates that the readings previously reported for the account are to be ignored. |
| **Must Use** | **BPT02** | **127** | **Reference Identification** | **O** | **AN 1/30** |
|  | 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 must be unique over time.**PA:** This code will be used as a cross reference to the 810 billing document, and for billing parties that make the other party whole, it will also be cross referenced on the 820. |
| **Must Use** | **BPT03** | **373** | **Date** | **M** | **DT 8/8** |
|  | Date (CCYYMMDD) |
|  | Transaction Creation Date – the date that the data is 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 |
|  | DD |  | Monthly Usage |
|  | For monthly metered customers only (not interval metered customers).  |
|  | KJ |  | Meter Changeout when Meter Agent Changes – Monthly Usage |
|  | For monthly metered customers only (not interval metered customers) |
|  | X4 |  | Summary Report (defined for PA and MD) |
|  | For interval metered customers, when only summary data is being sent at the ACCOUNT level.**PA Note:** Some utilities may not be able to comply with this until later since this was added so close to the 4010 implementation date. If the utilities can not comply day 1, the utility will send the code of “DD”**MD Note:** Use of the “X4” code on the 867MU indicates the interval detail will be provided on the web.  |
|  | X5 |  | Restricted Report  |
|  | For interval metered customers, when only summary data is being sent at the METER level.**PA Note:** Mandatory implementation date is June 2000. |
| **Conditional** | **BPT07** | **306** | **Action Code** | **O** | **AN 1/2** |
|  | Code indicating type of action |
|  | F |  | Final – Indicates Final Usage for specific ESP.  |
|  | **Condition:** Code to indicate this is the final usage data being sent for this customer. Either the customer account is final with the LDC or the customer switched to a new ESP. **NJ PSE&G:** PSE&G only sends “F” on a customer account final. They do not send an “F” on a customer switch. |
| **Conditional** | **BPT09** | **127** | **Reference Identification** | **O** | **AN 1/30** |
|  | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier |
|  | **Condition:** When this is a cancellation of usage, that is BPT01 = 01, this element is required and should contain the transaction identification number from BPT02 of the transaction that is being cancelled. |

#  Segment: DTM Date/Time Reference (649=Document Due Date)

 **Position:** 050

 **Loop:**

 **Level:** Heading

 **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:** |  | Required for Bill Ready Consolidated Billing where the meter reading party sends an 867 to the non-billing party, who calculates their own portion of the bill and sends the 810 to the billing party. Must be expressed in Eastern Prevailing Time. Not provided on cancel transaction. |
| **PA Use:** |  | Required for Bill Ready, not used in Rate Ready or Dual Billing**Note:** For ESP Consolidated Billing, the document due date will be set according to the specific LDC bill ready implementation. |
| **NJ Use:** |  | Required for Bill Ready, not used in Rate Ready or Dual Billing |
| **DE Use:** |  | Required for Bill Ready, not used in Rate Ready or Dual Billing |
| **MD Use:** |  | Required for Bill Ready, not used in Rate Ready or Dual Billing |
| **Examples:** |  | DTM\*649\*19990131\*2359 |

##### 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 |
|  | 649 |  | Document Due |
|  | The date that the non-billing party must provide the 810 transaction back to the billing party.If a file is received by the billing party after the date, and the billing party cannot process it, they must notify the non-billing party (via email, phone call, or any other means). |
| **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 |

#  Segment: MEA Measurements (NP=Percent Participation)

 **Position:** 075

 **Loop:**

 **Level:** Heading

 **Usage:** Optional

 **Max Use:** 20

 **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.

|  |  |  |
| --- | --- | --- |
| **PA Use:** |  | Required if less than 100% |
| **NJ Use:** |  | Not used |
| **DE Use:** |  | Not used |
| **MD Use:** |  | Not Used |
| **Example:** |  | MEA\*\*NP\*.66667 |

**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 |
|  | NP |  | Percent Participation |
|  | This code is used to indicate the percentage of the total load that is supplied by the ESP. This is the multiplication of two fields that are on the 814 transaction, AMT\*7N (Participating Interest) and AMT\*QY (Eligible Load).  |
| **Must Use** | **MEA03** | **739** | **Measurement Value** | **X** | **R 1/20** |
|  | The value of the measurement |
|  | The whole number "1" represents 100 percent. Decimal numbers less than "1" represent percentages from 1 percent to 99 percent. |

#  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:** |  | Required |
| **DE Use:** |  | Required |
| **MD Use:** |  | Required |
| **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:** |  | Required |
| **DE Use:** |  | Required |
| **MD Use:** |  | Required |
| **Example:** |  | N1\*SJ\*ESP COMPANY\*9\*007909422ESP |

**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 |
| **DE Use:** |  | Not used |
| **MD Use:** |  | Not used |
| **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.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Please note that while you may place your N1 segments in any order, the REF segments that follow must be contained within the N1\*8R loop. |
| **PA Use:** |  | Required |
| **NJ Use:** |  | Required |
| **DE Use:** |  | Required |
| **MD Use:** |  | Required |
| **Example:** |  | N1\*8R\*CUSTOMER NAME |

**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 |

#  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:** |  | Required |
| **DE Use:** |  | Required |
| **MD Use:** |  | Required |
| **Example:** |  | REF\*12\*1239485790 |

**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 the end use customer. Must appear as it does on the customer’s bill excluding punctuation (spaces, dashes, etc.) Significant leading and trailing zeros must be included. |
| **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 has changed within the last 60 days. |
| **NJ Use:** |  | Required if account number has changed within the last 60 days. |
| **DE Use:** |  | Not used  |
| **MD Use:** |  | Not Used by BGE, PEPCO and Delmarva.PE: Required if the account number has changed in the last 60 days. |
| **Example:** |  | REF\*45\*939581900 |

**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 |
|  | Previous LDC-assigned 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: 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:** |  | Required if it was previously provided to the LDC. |
| **NJ Use:** |  | Same as PA  |
| **DE Use:** |  | Same as PA  |
| **MD Use:** |  | Same as PA  |
| **Example:** |  | REF\*11\*1394959 |

**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 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: REF Reference Identification (BLT=Billing Type)

 **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:** |  | Required |
| **DE Use:** |  | Required |
| **MD Use:** |  | Required |
| **Example:** |  | REF\*BLT\*LDC |

**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 |
|  | BLT |  | Billing Type |
|  | Identifies whether the bill is consolidated by the LDC or ESP, or whether each party will render their own bill. See REF02 for valid values. |
| **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 BLT, valid values for REF02 are:  LDC - The LDC bills the customer ESP - The ESP bills the customer DUAL - Each party bills the customer for their portion**Note:** In New Jersey, only LDC and DUAL are valid. |

#  Segment: REF Reference Identification (PC=Bill Calculator)

 **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:** |  | Required |
| **DE Use:** |  | Required |
| **MD Use:** |  | Required |
| **Example:** |  | REF\*PC\*LDC |

**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 |
|  | PC |  | Production Code |
|  | Identifies the party that is to calculate the charges on the bill. |
| **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 PC, valid values for REF02 are:  LDC - The LDC calculates the charges on the bill (Rate Ready) DUAL - Each party calculates its portion of the bill (Dual or Bill Ready) |

|  |  |
| --- | --- |
| IF … | **THEN…** |
| **Bills the** | **Calculates** | **Billing Party** | **Calc. Party** |
| **Customer** | **LDC Portion** | **ESP Portion** | **REF\*BLT** | **REF\*PC** |
| LDC | LDC | LDC | LDC | LDC |
| LDC | LDC | ESP | LDC | DUAL |
| ESP | LDC | ESP | ESP | DUAL |
| DUAL | LDC | ESP | DUAL | DUAL |

Be careful to use the UIG Standard Code Values LDC and ESP rather than the Pennsylvania versions of those codes.

#  Segment: PTD Product Transfer and Resale Detail (BB=Billed 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:** |  | PTD Loops may be sent in any order. |
| **PA Use:** |  | One Monthly Billed Summary PTD loop is required for every account. |
| **NJ Use:** |  | Required |
| **DE Use:** |  | Required |
| **MD Use:** |  | Required |
| **Example:** |  | PTD\*BB |

**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 |
|  | BB |  | Monthly Billed Summary  |
|  | This information is obtained from the billing system to reflect the billing data for this account at the unit of measure level. |

**Note:**

**Refer to the “PTD Loops Definition” section earlier in this document for an explanation of this specific PTD Loop.**

##  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:**

|  |  |  |
| --- | --- | --- |
| **PA Use:** |  | Required |
| **NJ Use:** |  | Required |
| **DE Use:** |  | Required |
| **MD Use:** |  | Required |
| **Example:** |  | DTM\*150\*19990101  |

**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:**

|  |  |  |
| --- | --- | --- |
| **PA Use:** |  | Required  |
| **NJ Use:** |  | Required  |
| **DE Use:** |  | Required |
| **MD Use:** |  | Required |
| **Example:** |  | DTM\*151\*19990131  |

**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: QTY Quantity (Billed kwh)

 **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:** |  | Billed KWH |
| **PA Use:** |  | Required  |
| **NJ Use:** |  | Required |
| **DE Use:** |  | Required |
| **MD Use:** |  | Required |
| **Example:** |  | QTY\*D1\*22348\*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 |
|  | D1 |  | Billed |
|  | Used when Quantity in QTY02 is a “Billed” 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 |
|  | KH |  | Kilowatt Hour  |
|  | Billed Kilowatt Hours as shown on the customer’s bill. May or may not be the same as measured kilowatt hours. |

##  Segment: QTY Quantity (Billed Demand)

 **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:** |  | Billed Demand |
| **PA Use:** |  | Required if account measures Demand (KW). This must be sent even if Billed (derived) demand is equal to measured demand. |
| **NJ Use:** |  | Same as PA |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Example:** |  | QTY\*D1\*14\*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 |
|  | D1 |  | Billed |
|  | Used when Quantity in QTY02 is a “Billed” 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 |

##  Segment: QTY Quantity (Measured Demand)

 **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:** |  | Measured Demand |
| **PA Use:** |  | Required if account measures Demand (KW) |
| **NJ Use:** |  | Same as PA |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA**Note:** BGE does not store Measured Demand. They will send Billed Demand in this field. |
| **Example:** |  | QTY\*QD\*14\*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 |
|  | 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 |

#  Segment: PTD Product Transfer and Resale Detail (SU=Metered Services 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:** |  | PTD Loops may be sent in any order. |
| **PA Use:** |  | Required if this is a metered account that measures kWh or KVARH and the LDC reads the meter. |
| **NJ Use:** |  | Same as PA |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Example:** |  | 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 |  | Summary |
|  | A summary loop will be provided for each type of consumption for every unit of measure for all meters in the account. |

**Note:**

**Refer to the “PTD Loops Definition” section earlier in this document for an explanation of this specific PTD Loop.**

##  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:**

|  |  |  |
| --- | --- | --- |
| **PA Use:** |  | Required if account has metered services. |
| **NJ Use:** |  | Same as PA |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Example:** |  | DTM\*150\*19990101  |

**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:**

|  |  |  |
| --- | --- | --- |
| **PA Use:** |  | Required if account has metered services. |
| **NJ Use:** |  | Same as PA |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Example:** |  | DTM\*151\*19990131  |

**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: 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:** |  | There will be one QTY loop for each of the QTY03 Units of Measurement listed below that are measured on this account. |
| **PA Use:** |  | Required if account has metered services |
| **NJ Use:** |  | Same as PA |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Example:** |  | QTY\*QD\*22348\*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 |
|  | K3 |  | Kilovolt Amperes Reactive Hour (kVARH) |
|  | Represents actual electricity equivalent to kilowatt hours; billable when usage meets or exceeds defined parameters |
|  | KH |  | Kilowatt Hour |

#  Segment: PTD Product Transfer and Resale Detail (PM=Metered 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:** |  | PTD Loops may be sent in any order.There will be a separate PTD loop for each unit of measurement for each meter on the account.**Note:** If the BPT04=”X4” indicating this document is being sent for an interval account at the account level, this loop may be sent for each unit of measure, but not each meter. When the BPT04=”X4”, the data may be summarized for the account. |
| **PA Use:** |  | Required if this is a metered account.**Note:** The sending of the PM loop s is optional when this is a cancel transaction (BPT01=01).  |
| **NJ Use:** |  | Required if this is a metered account. |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Example:** |  | 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 |

**Note:**

**Refer to the “PTD Loops Definition” section earlier in this document for an explanation of this specific PTD Loop.**

##  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:** |  | Required, unless a “DTM\*514” is substituted for this code.  |
| **NJ Use:** |  | Same as PA |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Example:** |  | DTM\*150\*19990101  |

**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:** |  | Required, unless a “DTM\*514” is substituted for this code.  |
| **NJ Use:** |  | Same as PA. |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Example:** |  | DTM\*151\*19990131  |

**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:** |  | Required when a meter is changed and the meter agent does not change. |
| **NJ Use:** |  | Same as PA. |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Example:** |  | Date Range in the first PTD is shown as:DTM\*150\*19990201 DTM\*514\*19990214 Date Range in the second PTD is shown as:DTM\*514\*19990214 DTM\*151\*19990228  |

**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:** |  | Required if this is a metered account and the meter is on the account at the end of the period. For some utilities, they may not be able to provide the actual meter number for a meter that has been changed out during the month. In that case, the REF\*MG will not be sent. Everyone is working toward being able to provide the old meter number.**Note:** If the BPT04=”X4” indicating this document is being sent for an interval account at the account level, this segment will be not be used.  |
| **NJ Use:** |  | Same as PA |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Example:** |  | REF\*MG\*2222277S  |

**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 |
| **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:** |  | Optional |
| **NJ Use:** |  | Optional |
| **DE Use:** |  | Optional |
| **MD Use:** |  | Optional |
| **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 Subclass)

 **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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | This iteration of the REF segment is used for meter level information. |
| **PA Use:** |  |   | Conditional: If maintained by utility, must be sent for each meter loop that is used for billing purposes. **Note:** If the BPT04=”X4” indicating this document is being sent for an interval account at the account level, this segment will be not be used. |
| **NJ Use:** |  | Optional |
| **DE Use:** |  | Optional |
| **MD Use:** |  | Optional |
| **Example:** |  | REF\*PR\*123 |

**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 |
|  | 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 (JH=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:** |  | Required if consumption is provided at a meter level**Note:** If the BPT04=”X4” indicating this document is being sent for an interval account at the account level, this segment will be not be used. |
| **NJ Use:** |  | Required if consumption is provided at a meter level |
| **DE Use:** |  | Required if consumption is provided at a meter level |
| **MD Use:** |  | Required if consumption is provided at a meter level |
| **Example:** |  | REF\*JH\*A |

**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 |
|  | JH |  | Meter Role |
| **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 JH, valid values for REF02 are:S = Subtractive - this consumption needs to be subtracted from the summarized total.A = Additive - this consumption contributed to the summarized total (do nothing).I = Ignore - this consumption did not contribute to the summarized total (do nothing). |

##  Segment: REF Reference Identification (IX=Number of Dials/Digits)

 **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 meters with dials**Note:** If the BPT04=”X4” indicating this document is being sent for an interval account at the account level, this segment will be not be used. |
| **NJ Use:** |  | Same as PA |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Examples:** |  | REF\*IX\*6.0REF\*IX\*5.1REF\*IX\*4.2 |

**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 |
|  | IX |  | Rate Card Number |
|  | Number of Dials on the Meter displayed as the number of dials to the left of the decimal, a decimal point, and the number of dials to the right of the decimal. |
| **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 |
| **Optional** | **REF03** | **352** | **Description** | **X** | **AN 1/80** |
|  | A free-form description to clarify the related data elements and their content |
|  | Optional use: See Meter Type (REF\*MT) on 814 Enrollment for valid codes. |

|  |  |  |  |
| --- | --- | --- | --- |
| # Dials | Positions to left of decimal | Positions to right of decimal | X12 Example |
| 6 | 6 | 0 | REF\*IX\*6.0 |
| 6 | 5 | 1 | REF\*IX\*5.1 |
| 6 | 4 | 2 | REF\*IX\*4.2 |

##  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:** |  | There will be one QTY loop for **each** of the QTY03 Units of Measurement listed below for each meter that is measured on this account. If there are 2 meters on the account, and one measures KWH and KW, and the other measures just KWH, there will be 3 PTD01=PM loops.If a meter measures total usage, as well as on-peak and off-peak, there will be three QTY loops sent within one PTD01=PM loop. The MEA segment that follows each QTY will specify which time of use the QTY applies to. |
| **PA Use:** |  | Required if there are metered services on the account. |
| **NJ Use:** |  | Same as PA |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Example:** |  | QTY\*QD\*22348\*KH QTY\*QD\*14\*K1 (If meter measures both, you will have two QTY loops) |

**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:** |  | Required (optional on a cancellation) |
| **NJ Use:** |  | Same as PA |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Examples:** |  | MEA\*AA\*PRQ\*22348\*KH\*\*\*51MEA\*AA\*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** | **MEA01** | **737** | **Measurement Reference ID Code** | **O** | **ID 2/2** |
|  | Code identifying the broad category to which a measurement applies |
|  | AA |  | Meter reading-beginning actual/ending actual |
|  | AE |  | Meter reading-beginning actual/ending estimated |
|  | AF |  | Actual Total |
|  | BO |  | Meter Reading as Billed |
|  | Used when billing charges are based on contractual agreements or pre-established usage and not on actual usage |
|  | EA |  | Meter reading-beginning estimated/ending actual |
|  | EE |  | Meter reading-beginning estimated/ending estimated |
| **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 |
| **Conditional** | **MEA05** | **740** | **Range Minimum** | **X** | **R 1/20** |
|  | The value specifying the minimum of the measurement range |
|  | Beginning reading**Condition for PA:** Required for Residential. If the meter provides beginning and ending reads for on and off peak usage, then you must provide beginning and ending reads and consumption. If the meter does not provide beg/ending reads, you only provide consumption.**Condition for MD:** Required for residential if printed on the LDC bill.**Condition for NJ:** Required for all rate classes if printed on the LDC bill, and this is an actual read. If the meter does not provide begin/ending reads, only consumption will be provided. |
| **Must Use** | MEA06 | **741** | **Range Maximum** | **X** | **R 1/20** |
|  | The value specifying the maximum of the measurement range |
|  | Ending reading or single reading (e.g., demand).**PA:** Required for Residential. If the meter provides beginning and ending reads for on and off peak usage, then you must provide beginning and ending reads and consumption. If the meter does not provide beg/ending reads, you only provide consumption.**MD:** Required for residential if printed on the LDC bill. |
| **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: MEA Measurements (MU=Meter Multiplier)

 **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.

|  |  |  |
| --- | --- | --- |
| **PA Use:** |  | Required for a meter that has a meter multiplier other than 1.**Note:** If the BPT04=”X4” indicating this document is being sent for an interval account at the account level, this segment will be not be used. |
| **NJ Use:** |  | Same as PA |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Example:** |  | MEA\*\*MU\*2 |

**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 |
|  | MU |  | Multiplier |
| **Must Use** | **MEA03** | **739** | **Measurement Value** | **X** | **R 1/20** |
|  | The value of the measurement |
|  | Represents the meter constant when MEA02 equals "MU". When the multiplier equals 1, do not send this MEA segment. |

##  Segment: MEA Measurements (ZA=Power Factor)

 **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.

|  |  |  |
| --- | --- | --- |
| **PA Use:** |  | Required if it is available to the meter agent and it is used in the calculation of the customer’s bill. This is only relevant and should only ever be sent with Demand (K1). If not present with a demand quantity, it should be assumed to be 1.**Note:** If the BPT04=”X4” indicating this document is being sent for an interval account at the account level, this segment will be not be used. |
| **NJ Use:** |  | Same as PA |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Example:** |  | MEA\*\*ZA\*.95 |

**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 |
|  | ZA |  | Power Factor |
|  | Relationship between watts and volt - amperes necessary to supply electric load |
| **Must Use** | **MEA03** | **739** | **Measurement Value** | **X** | **R 1/20** |
|  | The value of the measurement |
|  | Represents the Power Factor when MEA02 equals "ZA". When no Power Factor is present or the value is 1, do not send this MEA segment. |

##  Segment: MEA Measurements (CO=Transformer Loss Multiplier)

 **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.

|  |  |  |
| --- | --- | --- |
| **PA Use:** |  | Required when Transformer Loss is not calculated by the meter.**Note:** If the BPT04=”X4” indicating this document is being sent for an interval account at the account level, this segment will be not be used. |
| **NJ Use:** |  | Same as PA |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Example:** |  | MEA\*\*CO\*1.02 |

**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 |
|  | CO |  | Transformer Loss Multiplier |
|  | When a customer owns a transformer and the transformer loss is not measured by the meter. |
| **Must Use** | **MEA03** | **739** | **Measurement Value** | **X** | **R 1/20** |
|  | The value of the measurement |
|  | Represents the Transformer Loss Multiplier when MEA02 equals "CO".  |

#  Segment: PTD Product Transfer and Resale Detail (BC=Unmetered Services 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:** |  | PTD Loops may be sent in any order. |
| **PA Use:** |  | Required if there are unmetered services on this account. |
| **NJ Use:** |  | Same as PA |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Example:** |  | PTD\*BC |

**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 |
|  | BC |  | Unmetered Services Summary |

**Note:**

**Refer to the “PTD Loops Definition” section earlier in this document for an explanation of this specific PTD Loop.**

##  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:**

|  |  |  |
| --- | --- | --- |
| **PA Use:** |  | Required if there are unmetered services on this account |
| **NJ Use:** |  | Same as PA |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Example:** |  | DTM\*150\*19990101  |

**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:**

|  |  |  |
| --- | --- | --- |
| **PA Use:** |  | Required if there are unmetered services on this account  |
| **NJ Use:** |  | Same as PA  |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Example:** |  | DTM\*151\*19990131  |

**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: 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:** |  | This loop is required when there are unmetered services on the account. This will contain the total quantity for the unmetered services. |
| **PA Use:** |  | Required is there are unmetered services on the account |
| **NJ Use:** |  | Same as PA |
| **DE Use:** |  | Same as PA |
| **MD Use:** |  | Same as PA |
| **Example:** |  | QTY\*QD\*500\*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 |
|  | QD |  | Actual Quantity Delivered |
|  | Used when the quantity delivered is an actual quantity.**All States**: Whether unmetered services are estimated, calculated, or actual, they will be coded as actual. |
| **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 |
|  | 99 |  | Watts |
|  | K1 |  | Kilowatt Demand (kW) |
|  | KH |  | Kilowatt Hour |

#  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:** |  | Required |
| **DE Use:** |  | Required |
| **MD Use:** |  | Required |
| **Example:** |  | SE\*28\*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 |

# Examples:

**General Note:**

For the detail portion, you may send your PTD loops in any order; this is a function of ANSI. The indicator in the PTD loop tells what information is contained in the loop. A translator’s mapper will map the loop according to your instructions.

## Example 1 – One Meter – On/off peak:

Following example is for an account with one meter. Meter multiplier is 2, Power factor is 1.9999, and no transformer loss. The meter measures on and off peak consumption, and the meter readings are at the on / off peak consumption level. The meter also measures on and off peak demand.

* Total consumption is 100 KWH (60 on peak / 40 off-peak). Demand: On peak 4.7, Off peak 4.1 (billed 4.7).
* This example includes the Summary loop which summarizes kWh (and KVARH, if it existed), and the Monthly Billed Summary for billed kWh, kW (and kvarh if relevant).

|  |  |
| --- | --- |
| BPT\*00\*REF1-990125\*19990125\*DD  | Meter detail loop |
| DTM\*649\*19990202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| MEA\*\*NP\*0.66667 | Percent participation. If 100%, no need to send. This example is ESP has 66.667%, LDC 33.333%. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME | Customer name |
| REF\*12\*1234567891 | LDC Account number |
| REF\*45\*9395819001 | Old LDC Account number (to be sent for 60 days after a account number change) |
| REF\*11\*1394951 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| PTD\*BB | Monthly Billed Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*D1\*100\*KH | Monthly billed kWh |
| QTY\*D1\*4.7\*K1 | Monthly derived (billed) demand |
| QTY\*QD\*4.7\*K1 | Monthly measured demand |
| PTD\*SU | Metered services Summary loop |
| DTM\*150\*19990101 |  |
| DTM\*151\*19990131 |  |
| QTY\*QD\*100\*KH | Calculated summary of all meters for kWh / kvarh only |
| PTD\*PM | Meter detail loop for kWh |
| DTM\*150\*19990101 |  |
| DTM\*151\*19990131 |  |
| REF\*MG\*11111111 | Meter number |
| REF\*NH\*RES | LDC Rate |
| REF\*PR\*RESRT | LDC Rate Subclass |
| REF\*JH\*A | Additive meter |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*100\*KH | Consumption |
| MEA\*\*MU\*2  | Meter multiplier = 2 |
| MEA\*AA\*PRQ\*100\*KH\*1201\*1250\*51 | Total consumption with begin/end reads |
| QTY\*QD\*60\*KH | Consumption |
| MEA\*\*MU\*2  | Meter multiplier = 2 |
| MEA\*AA\*PRQ\*60\*KH\*11001\*11030\*42 | (On peak with consumption and begin/end reads) |
| QTY\*QD\*40\*KH | Consumption |
| MEA\*\*MU\*2  | Meter multiplier = 2 |
| MEA\*AA\*PRQ\*40\*KH\*23031\*23050\*41 | (Off peak with consumption and begin/end reads) |
| PTD\*PM | Meter detail loop for kW |
| DTM\*150\*19990101 |  |
| DTM\*151\*19990131 |  |
| REF\*MG\*11111111 | Meter number |
| REF\*NH\*RES | LDC Rate |
| REF\*PR\*RESRT | LDC Rate Subclass |
| REF\*JH\*A | Additive meter |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*4.7\*K1 | Demand |
| MEA\*\*MU\*2  | Meter multiplier = 2 |
| MEA\*\*ZA\*1.9999 | Power factor = 1.9999 |
| MEA\*AA\*PRQ\*4.7\*K1\*\*\*42 | On peak demand – readings not required since reset each month |
| QTY\*QD\*4.2\*K1 | Demand |
| MEA\*\*MU\*2  | Meter multiplier = 2 |
| MEA\*\*ZA\*1.9999 | Power factor = 1.9999 |
| MEA\*AA\*PRQ\*4.2\*K1\*\*\*41 | Off peak demand |

## Example 2 – One Meter - Totalizer

Following example is for an account with one meter. Meter multiplier is 2, Power factor is 1.9999, and no transformer loss. The meter measures on and off peak consumption, and the meter readings are only at the “totalizer” level. The meter also measures on and off peak demand.

* Total consumption is 100 KWH (60 on peak / 40 off-peak). Demand: On peak 4.7, Off peak 4.1 (billed 4.7).
* This example includes the Summary loop which summarizes kWh (and Kvarh, if it existed), and the Monthly Billed Summary for billed kWh, kW (and kvarh if relevant).

|  |  |
| --- | --- |
| BPT\*00\*REF1-990155\*19990131\*DD  | Meter detail loop |
| DTM\*649\*19990202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME | Customer name |
| REF\*12\*1234567890 | LDC Account number |
| REF\*45\*9395819000 | Old LDC Account number (to be sent for 60 days after a account number change) |
| REF\*11\*1394959 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| PTD\*BB | Monthly Billed Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*D1\*100\*KH | Monthly billed kWh |
| QTY\*D1\*4.7\*K1 | Monthly derived demand |
| QTY\*QD\*4.7\*K1 | Monthly measured demand |
| PTD\*SU | Metered services Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*QD\*100\*KH | Calculated summary of all metered for kWh / kvarh only |
| PTD\*PM | Meter detail loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| REF\*MG\*11111111 |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*100\*KH | Consumption |
| MEA\*\*MU\*2  | Meter multiplier = 2 |
| MEA\*AA\*PRQ\*100\*KH\*2500\*2550\*51 | Total consumption, and begin and end readings |
| QTY\*QD\*60\*KH | Consumption |
| MEA\*\*MU\*2  | Meter multiplier = 2 |
| MEA\*AA\*PRQ\*60\*KH\*\*\*42 | (On peak consumption)  |
| QTY\*QD\*40\*KH | Consumption |
| MEA\*\*MU\*2  | Meter multiplier = 2 |
| MEA\*AA\*PRQ\*40\*KH\*\*\*41 | (off peak consumption) |
| PTD\*PM | Meter detail loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| REF\*MG\*11111111 |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*4.7\*K1 | Demand |
| MEA\*\*MU\*2  | Meter multiplier = 2 |
| MEA\*\*ZA\*1.9999 | Power factor = 1.9999 |
| MEA\*AA\*PRQ\*4.7\*K1\*\*\*42 | On peak demand – readings not required since reset each month |
| QTY\*QD\*4.2\*K1 | Demand |
| MEA\*\*MU\*2  | Meter multiplier = 2 |
| MEA\*\*ZA\*1.9999 | Power factor = 1.9999 |
| MEA\*AA\*PRQ\*4.2\*K1\*\*\*41 | Off peak demand) |

## Example 3 – One Meter – Totalizer Only – No Demand:

Following example is for an account with one meter. Meter multiplier is 1. There is no Power factor and no transformer loss. There is no time of use on the meter. Demand is not measured.

* Total consumption is 600 kWh.
* This example includes the Summary loop which summarizes kWh, and the Monthly Billed Summary for billed kWh.

|  |  |
| --- | --- |
| BPT\*00\*REF1-990124\*19990124\*DD  | Meter detail loop |
| DTM\*649\*19990202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME | Customer name |
| REF\*12\*12345678920 | LDC Account number |
| REF\*45\*93958190020 | Old LDC Account number (to be sent for 60 days after a account number change) |
| REF\*11\*13949529 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| PTD\*BB | Monthly Billed Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*D1\*600\*KH | Monthly billed kWh |
| PTD\*SU | Metered services Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*QD\*600\*KH | Calculated summary of all metered for kWh / kvarh only |
| PTD\*PM | Meter detail loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| REF\*MG\*22222222 |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*600\*KH | Consumption |
| MEA\*AA\*PRQ\*600\*KH\*32000\*32600\*51 | Total consumption, and begin and end readings |

# Selected Billing Test Scenarios:

## Scenario - Single meter totalized (one rate), Month 1

Consumption is 1234.

|  |  |
| --- | --- |
| BPT\*00\*REF01-990201\*19990201\*DD  | Meter detail loop |
| DTM\*649\*19990202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT1 | Customer name |
| REF\*12\*111111111111111  | LDC Account number |
| REF\*11\*1394959 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| PTD\*BB | Monthly Billed Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*D1\*1234\*KH | Monthly billed kWh |
| PTD\*SU | Metered services Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*QD\*1234\*KH | Calculated summary of all metered for kWh / kvarh only |
| PTD\*PM | Meter detail loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| REF\*MG\*2222222S |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*1234\*KH | Consumption |
| MEA\*AA\*PRQ\*1234\*KH\*32000\*33234\*51 | Total consumption, and begin and end readings |

## Scenario - Single meter with time of day billing, Month 1

 On peak – 724, Off peak 539.

|  |  |
| --- | --- |
| BPT\*00\*REF04-990201\*19990201\*DD  | Meter detail loop |
| DTM\*649\*19990202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT4 | Customer name |
| REF\*12\*4444444444  | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| PTD\*BB | Monthly Billed Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*D1\*1263\*KH | Monthly billed kWh |
| PTD\*SU | Metered services Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*QD\*1263\*KH | Calculated summary of all metered for kWh / kvarh only |
| PTD\*PM | Meter detail loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| REF\*MG\*2222233S |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*1263\*KH | Consumption |
| MEA\*AA\*PRQ\*1263\*KH\*10000\*11263\*51 | Total consumption  |
| QTY\*QD\*724\*KH | Consumption |
| MEA\*AA\*PRQ\*724\*KH\*32000\*32724\*42 | On peak, and begin and end readings |
| QTY\*QD\*539\*KH | Consumption |
| MEA\*AA\*PRQ\*539\*KH\*15000\*15539\*41 | Off peak, and begin and end readings |

## Scenario - Single meter totalized. Meter switched by LDC during month 1.

Meter 1 usage 652, meter 2 usage 235.

|  |  |
| --- | --- |
| BPT\*00\*REF06-990201\*19990201\*DD  | Meter detail loop |
| DTM\*649\*19990202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT6 | Customer name |
| REF\*12\*6323423480  | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| PTD\*BB | Monthly Billed Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*D1\*887\*KH | Monthly billed kWh |
| PTD\*SU | Metered services Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*QD\*887\*KH | Calculated summary of all metered for kWh / kvarh only |
| PTD\*PM | Meter detail loop – Meter 1 |
| DTM\*150\*19990101 | Start period |
| DTM\*514\*19990121 | End period |
| REF\*MG\*2222266S |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*652\*KH | Consumption – Meter 1 |
| MEA\*AA\*PRQ\*652\*KH\*20000\*20652\*51 | Total consumption, with begin/end readings– Meter 1  |
| **PTD\*PM** | Meter detail loop – Meter 2 |
| DTM\*514\*19990122 | Start period |
| DTM\*151\*19990131 | End period |
| REF\*MG\*3333366S |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*235\*KH | Consumption – Meter 2 |
| MEA\*AA\*PRQ\*235\*KH\*0\*235\*51 | Total consumption, with begin/end readings– meter 2  |

## Scenario - Single meter. , Demand and KWH meter (non-interval), Month 1

**Month 1 information**: KW 14, KWH 22,348 (no readings available). Billed demand is 50 per contract.

|  |  |
| --- | --- |
| BPT\*00\*REF07-990201\*19990201\*DD  | Meter detail loop |
| DTM\*649\*19990202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT7 | Customer name |
| REF\*12\*77777777777  | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| PTD\*BB | Monthly Billed Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*D1\*22348\*KH | Monthly billed kWh |
| QTY\*D1\*50\*K1 | Monthly derived demand |
| QTY\*QD\*14\*K1 | Monthly measured demand |
| PTD\*SU | Metered services Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*QD\*22348\*KH | Calculated summary of all metered for kWh / kvarh only |
| PTD\*PM | Meter detail loop  |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| REF\*MG\*2222277S |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*22348\*KH | Consumption  |
| MEA\*AA\*PRQ\*22348\*KH\*130000\*152348\*51 | Total consumption, with begin/end readings  |
| PTD\*PM | Meter detail loop  |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| REF\*MG\*2222277S |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*14\*K1 | Demand  |
| MEA\*AA\*PRQ\*14\*K1\*\*\*51 | Total demand, with begin/end readings  |

## Scenario - Multiple meters. Demand and KWH meter (non-interval).

Month 1 Meter 1 information: KW 14, KWH 22,348 (no readings available). Billed demand is 50 per contract. Meter 2 information: KW 15, KWH 20,000.

|  |  |
| --- | --- |
| BPT\*00\*REF07-990201\*19990201\*DD  | Meter detail loop |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT8 | Customer name |
| REF\*12\*888888888888  | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| PTD\*BB | Monthly Billed Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*D1\*42348\*KH | Monthly billed kWh |
| QTY\*D1\*50\*K1 | Monthly derived demand |
| QTY\*QD\*29\*K1 | Monthly measured demand |
| PTD\*SU | Metered services Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*QD\*42348\*KH | Calculated summary of all metered for kWh / kvarh only |
| PTD\*PM | Meter 1 detail loop  |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| REF\*MG\*2222277S |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*22348\*KH | Consumption  |
| MEA\*AA\*PRQ\*22348\*KH\*130000\*152348\*51 | Total consumption, with begin/end readings  |
| PTD\*PM | Meter 1 detail loop  |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| REF\*MG\*2222277S |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*14\*K1 | Demand  |
| MEA\*AA\*PRQ\*14\*K1\*\*\*51 | Total demand, with begin/end readings  |
| PTD\*PM | Meter 2 detail loop  |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| REF\*MG\*1234577S |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*20000\*KH | Consumption  |
| MEA\*AA\*PRQ\*20000\*KH\*185000\*205000\*51 | Total consumption, with begin/end readings  |
| PTD\*PM | Meter 1 detail loop  |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| REF\*MG\*1234577S |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*15\*K1 | Demand  |
| MEA\*AA\*PRQ\*15\*K1\*\*\*51 | Total demand, with begin/end readings  |

##

## Scenario - Multiple services, metered and unmetered.

Metered consumption is 763, unmetered is 48.

|  |  |
| --- | --- |
| BPT\*00\*REF09-990201\*19990201\*DD  | Meter detail loop |
| DTM\*649\*19990202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT9 | Customer name |
| REF\*12\*99999999999  | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| PTD\*BB | Monthly Billed Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*D1\*811\*KH | Monthly billed kWh |
| PTD\*SU | Metered services Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*QD\*763\*KH | Calculated summary of all metered for kWh / kvarh only |
| PTD\*PM | Meter detail loop  |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| REF\*MG\*2222299S |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*763\*KH | Consumption  |
| MEA\*AA\*PRQ\*763\*KH\*12000\*12763\*51 | Total consumption, with begin/end readings  |
| PTD\*BC | Unmetered Services Summary  |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*QD\*48\*KH | Unmetered consumption |

## Scenario - Unmetered Service alone.

Unmetered consumption is 97.

|  |  |
| --- | --- |
| BPT\*00\*REF10-990201\*19990201\*DD  | Meter detail loop |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT10 | Customer name |
| REF\*12\*100000000  | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| PTD\*BB | Monthly Billed Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*D1\*97\*KH | Monthly billed kWh |
| PTD\*BC | Unmetered Services Summary  |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*QD\*97\*KH | Unmetered consumption |

## Scenario - Single meter totalized (one rate), month 2

Consumption is 867.

|  |  |
| --- | --- |
| BPT\*00\*REF01-990301\*19990301\*DD  | Meter detail loop |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT1 | Customer name |
| REF\*12\*111111111111111  | LDC Account number |
| REF\*11\*1394959 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| PTD\*BB | Monthly Billed Summary loop |
| DTM\*150\*19990201 | Start period |
| DTM\*151\*19990228 | End period |
| QTY\*D1\*867\*KH | Monthly billed kWh |
| PTD\*SU | Metered services Summary loop |
| DTM\*150\*19990201 | Start period |
| DTM\*151\*19990228 | End period |
| QTY\*QD\*867\*KH | Calculated summary of all metered for kWh / kvarh only |
| PTD\*PM | Meter detail loop |
| DTM\*150\*19990201 | Start period |
| DTM\*151\*19990228 | End period |
| REF\*MG\*2222222S |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*867\*KH | Consumption |
| MEA\*AA\*PRQ\*867\*KH\*33244\*34111\*51 | Total consumption, and begin and end readings |

##  Scenario - Cancel Months 1 and 2.

Separate documents must be sent for each month.

|  |  |
| --- | --- |
| BPT\*01\*REF01-990310A\*19990310\*DD\*\*\*\*\*REF01-090201  | Meter detail loop |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT1 | Customer name |
| REF\*12\*111111111111111  | LDC Account number |
| REF\*11\*1394959 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| PTD\*BB | Monthly Billed Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*D1\*1234\*KH | Monthly billed kWh |
| PTD\*SU | Metered services Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*QD\*1234\*KH | Calculated summary of all metered for kWh / kvarh only |
| PTD\*PM | Meter detail loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| REF\*MG\*2222222S |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*1234\*KH | Consumption |
| MEA\*AA\*PRQ\*1234\*KH\*32000\*33234\*51 | Total consumption, and begin and end readings (not all LDCs can provide MEA on a cancel) |

|  |  |
| --- | --- |
| BPT\*01\*REF01-990310B\*19990301\*DD\*\*\*\*\*REF01-990301  | Meter detail loop |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT1 | Customer name |
| REF\*12\*1  | LDC Account number |
| REF\*11\*1394959 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| PTD\*BB | Monthly Billed Summary loop |
| DTM\*150\*19990201 | Start period |
| DTM\*151\*19990228 | End period |
| QTY\*D1\*867\*KH | Monthly billed kWh |
| PTD\*SU | Metered services Summary loop |
| DTM\*150\*19990201 | Start period |
| DTM\*151\*19990228 | End period |
| QTY\*QD\*867\*KH | Calculated summary of all metered for kWh / kvarh only |
| PTD\*PM | Meter detail loop |
| DTM\*150\*19990201 | Start period |
| DTM\*151\*19990228 | End period |
| REF\*MG\*2222222S |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*867\*KH | Consumption |
| MEA\*AA\*PRQ\*867\*KH\*33234\*34101\*51 | Total consumption, and begin and end readings (not all LDCs can provide MEA on a cancel) |

## Scenario - Restatement of usage for Months 1 and 2.

Total usage for 2 months is 2043.

|  |  |
| --- | --- |
| BPT\*00\*REF01-990310C\*19990310\*DD  | Meter detail loop |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT1 | Customer name |
| REF\*12\*111111111111111  | LDC Account number |
| REF\*11\*1394959 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| PTD\*BB | Monthly Billed Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990228 | End period |
| QTY\*D1\*2043\*KH | Monthly billed kWh |
| PTD\*SU | Metered services Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990228 | End period |
| QTY\*QD\*2043\*KH | Calculated summary of all metered for kWh only |
| PTD\*PM | Meter detail loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990228 | End period |
| REF\*MG\*2222222S |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*2043\*KH | Consumption |
| MEA\*AA\*PRQ\*2043\*KH\*\*\*51 | Total consumption, and readings not known |

## Scenario - FINAL during month 2.

Single meter with time of day billing. Month 2 – On peak – 189, Off peak 67.

|  |  |
| --- | --- |
| BPT\*00\*REF04-990301\*19990301\*DD\*\*\*F  | Meter detail loop |
| DTM\*649\*19990202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT4 | Customer name |
| REF\*12\*4444444444  | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| PTD\*BB | Monthly Billed Summary loop |
| DTM\*150\*19990201 | Start period |
| DTM\*151\*19990224 | End period |
| QTY\*D1\*256\*KH | Monthly billed kWh |
| PTD\*SU | Metered services Summary loop |
| DTM\*150\*19990201 | Start period |
| DTM\*151\*19990224 | End period |
| QTY\*QD\*256\*KH | Calculated summary of all metered for kWh / kvarh only |
| PTD\*PM | Meter detail loop |
| DTM\*150\*19990201 | Start period |
| DTM\*151\*19990224 | End period |
| REF\*MG\*2222233S |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*256\*KH | Consumption |
| MEA\*AA\*PRQ\*256\*KH\*20100\*20356\*51 | Total consumption  |
| QTY\*QD\*189\*KH | Consumption |
| MEA\*AA\*PRQ\*189\*KH\*32724\*32913\*42 | On peak, and begin and end readings |
| QTY\*QD\*67\*KH | Consumption |
| MEA\*AA\*PRQ\*67\*KH\*15539\*15606\*41 | Off peak, and begin and end readings |

## Scenario - Single meter. Demand and KWH meter (non-interval), Month 1:

KW 14, KWH 22,348 (no readings available – non-residential account). Percent participation: ESP has .6667, LDC has .3333

|  |  |
| --- | --- |
| BPT\*00\*REF07-990201\*19990201\*DD  | Meter detail loop |
| DTM\*649\*19990202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| MEA\*\*NP\*0.66667 | Percent participation. This example is ESP has 66.667%, LDC 33.333%. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT17 | Customer name |
| REF\*12\*17  | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| PTD\*BB | Monthly Billed Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*D1\*22348\*KH | Monthly billed kWh |
| QTY\*D1\*14\*K1 | Monthly derived demand |
| QTY\*QD\*14\*K1 | Monthly measured demand |
| PTD\*SU | Metered services Summary loop |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| QTY\*QD\*22348\*KH | Calculated summary of all metered for kWh / kvarh only |
| PTD\*PM | Meter detail loop  |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| REF\*MG\*2222277S |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*22348\*KH | Consumption  |
| MEA\*AA\*PRQ\*22348\*KH\*\*\*51 | Consumption  |
| PTD\*PM | Meter detail loop  |
| DTM\*150\*19990101 | Start period |
| DTM\*151\*19990131 | End period |
| REF\*MG\*2222277S |  |
| REF\*JH\*A |  |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*14\*K1 | Consumption  |
| MEA\*AA\*PRQ\*14\*K1\*\*\*51 | Total consumption, with begin/end readings  |

## RENEWABLE ENERGY PROVIDER Example – New Jersey

Scenario: This example is to illustrate the use of the N1\*G7 for the Renewable Energy Provider. All other segments would be the same as they are for an ESP.

|  |  |
| --- | --- |
| BPT\*00\*REF1-990125\*19990125\*DD  | Meter detail loop |
| DTM\*649\*19990202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| MEA\*\*NP\*0.66667 | Percent participation. If 100%, no need to send. This example is ESP has 66.667%, LDC 33.333%. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*RENEWABLE COMPANY\*9\*007909422ESP1 | Renewable Energy Provider Company |
| N1\*8R\*CUSTOMER NAME | Customer name |
| REF\*12\*1234567891 | LDC Account number |
| REF\*11\*1394951 | Renewable Energy Provider Account number |

## Pennsylvania, Maryland & New Jersey (not PSE&G) Net Metering / Customer Generation Examples

**Net Meter / Customer Generation Scenario 1A: Consumption greater than generation**

Single meter reporting both in and out flow KH.

Customer consumed 1000KH and generated 200KH. The billed KH in the BB loop is 800KH.

The net consumption in the SU loop is 800KH. The PM is looped, one for the consumption KH (1000KH) and another for the generation KH (200) both with same meter number.

|  |  |
| --- | --- |
| BPT\*00\*REF06-120201\*20120201\*DD  | Meter detail loop |
| DTM\*649\*20120202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT6 | Customer name |
| REF\*12\*6323423480  | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| **PTD\*BB** | Monthly Billed Summary Loop |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| QTY\*D1\*800\*KH | Monthly billed KH |
| **PTD\*SU** | Metered services Summary loop |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| QTY\*QD\*800\*KH | Calculated summary of all metered for KH / kvarh only |
| **PTD\*PM** | Meter detail loop – **Consumption Meter** |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| REF\*MG\*11111111 | Meter Number |
| REF\*JH\*A | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*1000\*KH | **Consumption**  |
| MEA\*AA\*PRQ\*1000\*KH\*20000\*21000\*51 | Total consumption, with begin/end readings |
| **PTD\*PM** | Meter detail loop – **Generation Meter** |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| REF\*MG\*11111111 | Meter Number |
| REF\*JH\*S | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*87\*200\*KH | **Actual Generation** |
| MEA\*AA\*PRQ\*200\*KH\*300\*500\*51 | Total generation, with begin/end readings |

**Net Meter / Customer Generation Scenario 1B: Generation greater than consumption**

Single meter reporting both in and out flow KH.

Customer generated 1300KH and consumed 1000KH.

The billed KH in the BB loop is zero. The net generation reported in the SU loop is 300KH. The PM is looped, one for the consumption KH (1000KH) and another for the generation KH (1300) both with same meter number.

|  |  |
| --- | --- |
| BPT\*00\*REF06-120201\*20120201\*DD  | Meter detail loop |
| DTM\*649\*20120202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT6 | Customer name |
| REF\*12\*6323423480  | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| **PTD\*BB** | Monthly Billed Summary Loop |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| QTY\*D1\*0\*KH | Monthly billed KH |
| **PTD\*SU** | Metered services Summary loop |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| QTY\*87\*300\*KH | Calculated net KH |
| **PTD\*PM** | Meter detail loop – **Consumption Meter** |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| REF\*MG\*11111111 | Meter Number |
| REF\*JH\*A | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*1000\*KH | **Consumption**  |
| MEA\*AA\*PRQ\*1000\*KH\*20000\*21000\*51 | Total consumption, with begin/end readings |
| **PTD\*PM** | Meter detail loop – **Generation Meter** |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| REF\*MG\*11111111 | Meter Number |
| REF\*JH\*S | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*87\*1300\*KH | **Actual Generation** |
| MEA\*AA\*PRQ\*1300\*KH\*300\*1600\*51 | Total generation, with begin/end readings |

**Net Meter / Customer Generation Scenario 2A: Consumption greater than generation**

Single meter reporting net KH. Customer consumed 1000KH and generated 200KH. The billed KH in the BB loop is 800KH. The net generation is reported in both the SU and PM loops is 800KH. This method his does NOT report the customer’s actual consumption; only the net generation is being reported.

|  |  |
| --- | --- |
| BPT\*00\*REF06-120201\*20120201\*DD  | Meter detail loop |
| DTM\*649\*20120202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT6 | Customer name |
| REF\*12\*6323423480  | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| **PTD\*BB** | Monthly Billed Summary Loop |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| QTY\*D1\*800\*KH | Monthly billed KH |
| **PTD\*SU** | Metered services Summary loop |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| QTY\*QD\*800\*KH | Calculated summary of all metered for KH / kvarh only |
| **PTD\*PM** | Meter detail loop  |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| REF\*MG\*11111111 | Meter Number |
| REF\*JH\*A | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*800\*KH | **Consumption**  |
| MEA\*AA\*PRQ\*800\*KH\*20000\*20800\*51 | Total consumption, with begin/end readings |

**Net Meter / Customer Generation Scenario 2B: Generation greater than consumption**

Single meter reporting net KH. Customer generated 650KH and consumed 500KH.

The billed KH in the BB loop is zero. The net generation is reported in both the SU and PM loops is 150KH. This method his does NOT report the customer’s actual consumption; only the net generation is being reported.

|  |  |
| --- | --- |
| BPT\*00\*REF06-120201\*20120201\*DD  | Meter detail loop |
| DTM\*649\*20120202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT6 | Customer name |
| REF\*12\*6323423480  | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| **PTD\*BB** | Monthly Billed Summary Loop |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| QTY\*D1\*0\*KH | Monthly billed KH |
| **PTD\*SU** | Metered services Summary loop |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| QTY\*87\*150\*KH | Net generation, the meter is only reporting the net |
| **PTD\*PM** | Meter detail loop  |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| REF\*MG\*11111111 | Meter Number |
| REF\*JH\*A | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*87\*150\*KH | **Actual Generation**  |
| MEA\*AA\*PRQ\*150\*KH\*20000\*20150\*51 | Net generation, with begin/end readings |

**Net Meter / Customer Generation Scenario 3A: Consumption greater than generation**

Separate meters, one reporting inflow and another meter reporting outflow KH.

Customer consumed 1000KH and generated 600KH. The net consumption in the SU loop is 400KH.

The billed KH in the BB loop is 400KH.

|  |  |
| --- | --- |
| BPT\*00\*REF06-120201\*20120201\*DD  | Meter detail loop |
| DTM\*649\*20120202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT6 | Customer name |
| REF\*12\*6323423480  | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| **PTD\*BB** | Monthly Billed Summary Loop |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| QTY\*D1\*400\*KH | Monthly billed KH |
| **PTD\*SU** | Metered services Summary loop |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| QTY\*QD\*400\*KH | Calculated summary of all metered for KH / kvarh only |
| **PTD\*PM** | Meter detail loop – **Consumption Meter** |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| REF\*MG\*2222266S | Meter Number |
| REF\*JH\*A | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*1000\*KH | **Consumption**  |
| MEA\*AA\*PRQ\*1000\*KH\*20000\*21000\*51 | Total consumption, with begin/end readings |
| **PTD\*PM** | Meter detail loop – **Generation Meter** |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| REF\*MG\*3333366S | Meter Number |
| REF\*JH\*S | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*87\*600\*KH | **Actual Generation** |
| MEA\*AA\*PRQ\*600\*KH\*300\*900\*51 | Total generation, with begin/end readings |

**Net Meter / Customer Generation Scenario 3B: Generation greater than consumption**

Separate meters, one reporting inflow and another meter reporting outflow KH.

Customer generated 600KH and consumed 400KH. The net generation reported in the SU loop is 200KH.

The billed KH in the BB loop is zero.

|  |  |
| --- | --- |
| BPT\*00\*REF06-120201\*20120201\*DD  | Meter detail loop |
| DTM\*649\*20120202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT6 | Customer name |
| REF\*12\*6323423480  | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| **PTD\*BB** | Monthly Billed Summary Loop |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| QTY\*D1\*0\*KH | Monthly billed KH |
| **PTD\*SU** | Metered services Summary loop |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| QTY\*87\*200\*KH | Calculated summary of all metered for KH / kvarh only |
| **PTD\*PM** | Meter detail loop – **Consumption Meter** |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| REF\*MG\*2222266S | Meter Number |
| REF\*JH\*A | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*400\*KH | **Consumption**  |
| MEA\*AA\*PRQ\*400\*KH\*20000\*20400\*51 | Total consumption, with begin/end readings |
| **PTD\*PM** | Meter detail loop – **Generation Meter** |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| REF\*MG\*3333366S | Meter Number |
| REF\*JH\*S | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*87\*600\*KH | **Actual Generation** |
| MEA\*AA\*PRQ\*600\*KH\*300\*900\*51 | Total generation, with begin/end readings |

## Pennsylvania Net Metering / Customer Generation Examples (“Bank Rollover”)

Scenario is for single meter reading both consumption and generation. Month 1 is net generation applied into ‘bank’. Month 2 is net consumption with bank applied to bill but not fully exhausted. Month 3 is net consumption with bank applied to bill and exhausted with remaining consumption billed to customer.

*Month 1- Customer net generates 800KH into ‘bank’, billed KH is zero.*

|  |  |
| --- | --- |
| BPT\*00\*REF06-120201\*20120201\*DD  | Meter detail loop |
| DTM\*649\*20120202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT6 | Customer name |
| REF\*12\*6323423480  | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| **PTD\*BB** | Monthly Billed Summary Loop |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| QTY\*D1\*0\*KH | Monthly billed KH |
| **PTD\*SU** | Metered services Summary loop |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| QTY\*87\*800\*KH | Net KH – 800KH excess generation |
| **PTD\*PM** | Meter detail loop – **Consumption Loop** |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| REF\*MG\*11111111 | Meter Number |
| REF\*JH\*A | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*100\*KH | **Actual Consumption**  |
| MEA\*AA\*PRQ\*100\*KH\*21000\*21100\*51 | Total consumption, with begin/end readings |
| **PTD\*PM** | Meter detail loop – **Generation Loop** |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| REF\*MG\*11111111 | Meter Number |
| REF\*JH\*S | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*87\*900\*KH | **Actual Generation** |
| MEA\*AA\*PRQ\*900\*KH\*100\*1000\*51 | Total generation, with begin/end readings |

*Month 2- Customer net consumes 500KH reducing the 800KH ‘bank’ by 500KH, billed KH remains zero.*

|  |  |
| --- | --- |
| BPT\*00\*REF06-120201\*20120201\*DD  | Meter detail loop |
| DTM\*649\*20120202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT6 | Customer name |
| REF\*12\*6323423480  | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| **PTD\*BB** | Monthly Billed Summary Loop |
| DTM\*150\*20120201 | Start period |
| DTM\*151\*20120228 | End period |
| QTY\*D1\*0\*KH | Monthly billed KH |
| **PTD\*SU** | Metered services Summary loop |
| DTM\*150\*20120201 | Start period |
| DTM\*151\*20120228 | End period |
| QTY\*QD\*500\*KH | Net KH – 500KH consumption |
| **PTD\*PM** | Meter detail loop – **Consumption Loop** |
| DTM\*150\*20120201 | Start period |
| DTM\*151\*20120228 | End period |
| REF\*MG\*11111111 | Meter Number |
| REF\*JH\*A | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*700\*KH | **Actual Consumption**  |
| MEA\*AA\*PRQ\*700\*KH\*21100\*21800\*51 | Total consumption, with begin/end readings |
| **PTD\*PM** | Meter detail loop – **Generation Loop** |
| DTM\*150\*20120201 | Start period |
| DTM\*151\*20120228 | End period |
| REF\*MG\*11111111 | Meter Number |
| REF\*JH\*S | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*87\*200\*KH | **Actual Generation** |
| MEA\*AA\*PRQ\*200\*KH\*1000\*1200\*51 | Total generation, with begin/end readings |

*Month 3- Customer net consumes 500KH, empties the remaining ‘bank’ of 300KH, billed net of consumption and the bank which is 200KH.*

|  |  |
| --- | --- |
| BPT\*00\*REF06-120201\*20120201\*DD  | Meter detail loop |
| DTM\*649\*20120202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT6 | Customer name |
| REF\*12\*6323423480  | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| **PTD\*BB** | Monthly Billed Summary Loop |
| DTM\*150\*20120301 | Start period |
| DTM\*151\*20120331 | End period |
| QTY\*D1\*200\*KH | Monthly billed KH |
| **PTD\*SU** | Metered services Summary loop |
| DTM\*150\*20120301 | Start period |
| DTM\*151\*20120331 | End period |
| QTY\*QD\*500\*KH | Net KH – 500KH consumption |
| **PTD\*PM** | Meter detail loop – **Consumption Loop** |
| DTM\*150\*20120201 | Start period |
| DTM\*151\*20120228 | End period |
| REF\*MG\*11111111 | Meter Number |
| REF\*JH\*A | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*800\*KH | **Actual Consumption**  |
| MEA\*AA\*PRQ\*800\*KH\*21800\*22600\*51 | Total consumption, with begin/end readings |
| **PTD\*PM** | Meter detail loop – **Generation Loop** |
| DTM\*150\*20120201 | Start period |
| DTM\*151\*20120228 | End period |
| REF\*MG\*11111111 | Meter Number |
| REF\*JH\*S | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*87\*300\*KH | **Actual Generation** |
| MEA\*AA\*PRQ\*300\*KH\*1200\*1500\*51 | Total generation, with begin/end readings |

## New Jersey ( PSE&G) Net Metering / Customer Generation Examples

**Net Meter / Customer Generation PSE&G Scenario 1A: Consumption greater than generation**

Single meter reporting both in and out flow KH.

Customer consumed 1000KH and generated 200KH.

The billed KH in the BB loop is 800KH.

The net consumption in the SU loop is 800KH.

There is one PM with the QTY looped, one for the consumption KH (1000KH) and another for the generation KH (200) both with same meter number.

|  |  |
| --- | --- |
| BPT\*00\*REF06-120201\*20120201\*DD  | Meter detail loop |
| DTM\*649\*20120202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT6 | Customer name |
| REF\*12\*6323423480  | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| **PTD\*BB** | Monthly Billed Summary Loop |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| QTY\*D1\*800\*KH | Monthly billed KH |
| **PTD\*SU** | Metered services Summary loop |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| QTY\*QD\*800\*KH | Calculated summary of all metered for KH / kvarh only |
| **PTD\*PM** | Meter detail loop – **Consumption Meter** |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| REF\*MG\*11111111 | Meter Number |
| REF\*JH\*A | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*1000\*KH | **Consumption**  |
| MEA\*AA\*PRQ\*1000\*KH\*20000\*21000\*51 | Total consumption, with begin/end readings |
| QTY\*87\*200\*KH | **Actual Generation** |
| MEA\*AA\*PRQ\*200\*KH\*300\*500\*51 | Total generation, with begin/end readings |

**Net Meter / Customer Generation PSE&G Scenario 1B: Generation greater than consumption**

Single meter reporting both in and out flow KH.

Customer generated 1300KH and consumed 1000KH.

The billed KH in the BB loop is zero.

The net generation reported in the SU loop is 300KH.

There is one PM with the QTYlooped, one for the consumption KH (1000KH) and another for the generation KH (1300).

|  |  |
| --- | --- |
| BPT\*00\*REF06-120201\*20120201\*DD  | Meter detail loop |
| DTM\*649\*20120202\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME – ACCT6 | Customer name |
| REF\*12\*6323423480  | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*DUAL | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| **PTD\*BB** | Monthly Billed Summary Loop |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| QTY\*D1\*0\*KH | Monthly billed KH |
| **PTD\*SU** | Metered services Summary loop |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| QTY\*87\*300\*KH | Calculated net KH |
| **PTD\*PM** | Meter detail loop – **Consumption Meter** |
| DTM\*150\*20120101 | Start period |
| DTM\*151\*20120131 | End period |
| REF\*MG\*11111111 | Meter Number |
| REF\*JH\*A | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*1000\*KH | **Consumption**  |
| MEA\*AA\*PRQ\*1000\*KH\*20000\*21000\*51 | Total consumption, with begin/end readings |
| QTY\*87\*1300\*KH | **Actual Generation** |
| MEA\*AA\*PRQ\*1300\*KH\*300\*1600\*51 | Total generation, with begin/end readings |

## Maryland – 867 Monthly Usage - Multiple meter exchange in same service period.

Service period 1/14/2013 to 2/13/2013

1st Meter Exchange on 1/17/2013

2nd Meter Exchange on 1/19/2013

|  |  |
| --- | --- |
| BPT\*00\*1234567890\*20130214\*DD  | Meter detail loop |
| DTM\*649\*20130217\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*LDC COMPANY\*1\*007909411 | LDC Company |
| N1\*SJ\*ESP COMPANY\*9\*007909422ESP1 | ESP Company |
| N1\*8R\*CUSTOMER NAME  | Customer name |
| REF\*12\*8771441829 | LDC Account number |
| REF\*11\*13949594 | ESP Account number |
| REF\*BLT\*LDC | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| **PTD\*BB** | Monthly Billed Summary loop |
| DTM\*150\*20130114 | Start period |
| DTM\*151\*20130213 | End period |
| QTY\*D1\*7187\*KH | Monthly billed kWh |
| **PTD\*SU** | Metered services Summary loop |
| DTM\*150\*20130114 | Start period |
| DTM\*151\*20130213 | End period |
| QTY\*QD\*7187\*KH | Calculated summary of all metered for kWh / kvarh only |
| **PTD\*PM** | Meter detail loop |
| DTM\*150\*20130114 | Start period |
| DTM\*514\*20130117 | Meter Change Out Date |
| REF\*MG\*OLDMETER1 | Old Meter Number |
| REF\*JH\*A | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*710\*KH | Consumption  |
| MEA\*AA\*PRQ\*710\*KH\*\*\*51 | Consumption  |
| **PTD\*PM** | Meter detail loop  |
| DTM\*514\*20130117 | Start period |
| DTM\*514\*20130119 | End period |
| REF\*MG\*MTREXCHG1 | Meter Number of 1st Meter Exchange |
| REF\*JH\*A | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*0\*KH | Consumption  |
| MEA\*AA\*PRQ\*0\*KH\*\*\*51 | Total consumption, with begin/end readings  |
| **PTD\*PM** | Meter detail loop  |
| DTM\*514\*20130119 | Start period |
| DTM\*151\*20130213 | End period |
| REF\*MG\* MTREXCHG2 | Meter Number of 2nd Meter Exchange |
| REF\*JH\*A | Meter Role |
| REF\*IX\*6.0 | Number of dials or digits |
| QTY\*QD\*6477\*KH | Consumption  |
| MEA\*AA\*PRQ\*6477\*KH\*\*\*51 | Total consumption, with begin/end readings  |

## Maryland (BGE- Non-Residential Time of Use Only) - Net Metering / Customer Generation Examples

**Net Meter / Customer Generation - BGE Non-Residential TOU Scenario: Month 1**

Billing period: 09/15/14-10/15/14

For the billing period above, the account recorded the following:

On Peak – net generation of 124 kWh (QTY\*87)

Intermediate Peak – net generation of 15 kWh (QTY\*87)

Off Peak – net consumption of 315 kWh (QTY\*QD)

BGE bills distribution charges for any positive usage for one or more peak periods. In this case, BGE billed distribution charges based off of the positive Off Peak usage of 315 kWh. This is referenced in the BB loop. The net generation recorded for the On & Intermediate Peak periods will carry over to next month’s bill.

The SU loop shows the net difference of 176 kWh for the billing period (315 net Off Peak consumption minus net On & Intermediate generation of 124 and 15 (315 – 139 = 176))

The PM loops display the net generation or consumption for each peak period.

NOTE: The account had an On Peak carryover generation amount of 134 kWh from the previous month, so next month’s billing would reflect an accrued On Peak carryover of 258 kWh.

|  |  |
| --- | --- |
| BPT\*00\*2015-01-13-17.25.06.086541BGE1\*20150113\*DD |  |
| DTM\*649\*20150120\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*BALTIMORE GAS AND ELECTRIC COMPANY\*1\*156171464 | LDC Company |
| N1\*SJ\*ELECTRIC SUPPLIER\*9\*999999999MD01 | ESP Company |
| N1\*8R\*Test Account | Customer name |
| REF\*12\*9999999999 | LDC Account number |
| REF\*BLT\*LDC | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| PTD\*BB | Monthly Billed Summary Loop |
| DTM\*150\*20140915 | Start period |
| DTM\*151\*20141015 | End period |
| QTY\*D1\*315\*KH | Monthly billed KH |
| PTD\*SU | Metered services Summary loop |
| DTM\*150\*20140915 | Start period |
| DTM\*151\*20141015 | End period |
| QTY\*QD\*176\*KH | Calculated summary of all metered for KH / kvarh only |
| PTD\*PM | Meter detail loop  |
| DTM\*150\*20140915 | Start period |
| DTM\*151\*20141015 | End period |
| REF\*MG\*1234567890 | Meter Number |
| REF\*NH\*144 | LDC Rate Class |
| REF\*JH\*A | Meter Role |
| REF\*IX\*5.0 | Number of dials or digits |
| QTY\*QD\*315\*KH | Off-Peak Usage |
| MEA\*AA\*PRQ\*315\*KH\*0\*0\*41 | Off-Peak usage, with begin/end readings |
| MEA\*\*MU\*1 | Meter Multiplier |
| QTY\*87\*124\*KH | On-Peak Usage |
| MEA\*AA\*PRQ\*124\*KH\*0\*0\*42 | On-Peak usage, with begin/end readings |
| MEA\*\*MU\*1 | Meter Multiplier |
| QTY\*87\*15\*KH | Intermediate-Peak Usage |
| MEA\*AA\*PRQ\*15\*KH\*0\*0\*43 | Intermediate-Peak usage, with begin/end readings |
| MEA\*\*MU\*1 | Meter Multiplier |

**Net Meter / Customer Generation - BGE Residential TOU Scenario: Month 2**

Billing period: 10/15/14-11/13/14

For the billing period above, the account recorded the following:

On Peak – net consumption of 142 kWh (QTY\*QD)

Intermediate Peak – net generation of 137 kWh (QTY\*87)

Off Peak – net consumption of 435 kWh (QTY\*QD)

The PM loops reflect the amounts above.

The SU loop reflects the total of these three amounts (QTY\*QD of 440 kWh).

The account had an On Peak carryover credit of 258 kWh from the previous billing. BGE used 142 of this On Peak credit and applied to the On Peak consumption of 142 KH leaving 116 kWh to be applied to next month’s On Peak consumption. Since the application of the pre-existing On Peak credit brought this month’s On peak usage to zero, BGE only billed the net positive usage of 435 kWh (from the Off Peak). This amount is reflected in the BB loop.

|  |  |
| --- | --- |
| BPT\*00\*2015-02-04-19.10.52.321647BGE1\*20150121\*DD |  |
| DTM\*649\*20150127\*1700 | This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. |
| N1\*8S\*BALTIMORE GAS AND ELECTRIC COMPANY\*1\*156171464 | LDC Company |
| N1\*SJ\*ELECTRIC SUPPLIER\*9\*999999999MD01 | ESP Company |
| N1\*8R\*Test Account | Customer name |
| REF\*12\*9999999999 | LDC Account number |
| REF\*BLT\*LDC | Bill type |
| REF\*PC\*DUAL | Bill Calculator |
| PTD\*BB | Monthly Billed Summary Loop |
| DTM\*150\*20141015 | Start period |
| DTM\*151\*20141113 | End period |
| QTY\*D1\*435\*KH | Monthly billed KH |
| PTD\*SU | Metered services Summary loop |
| DTM\*150\*20141015 | Start period |
| DTM\*151\*20141113 | End period |
| QTY\*QD\*440\*KH | Calculated summary of all metered for KH / kvarh only |
| PTD\*PM | Meter detail loop  |
| DTM\*150\*20141015 | Start period |
| DTM\*151\*20141113 | End period |
| REF\*MG\*1234567890 | Meter Number |
| REF\*NH\*144 | LDC Rate Class |
| REF\*JH\*A | Meter Role |
| REF\*IX\*5.0 | Number of dials or digits |
| QTY\*QD\*435\*KH | Off-Peak Consumption |
| MEA\*AA\*PRQ\*435\*KH\*0\*0\*41 | Off-Peak consumption, with begin/end readings |
| MEA\*\*MU\*1 | Meter Multiplier |
| QTY\*QD\*142\*KH | On-Peak Usage |
| MEA\*AA\*PRQ\*142\*KH\*0\*0\*42 | On-Peak usage, with begin/end readings |
| MEA\*\*MU\*1 | Meter Multiplier |
| QTY\*87\*137\*KH | Intermediate-Peak Usage |
| MEA\*AA\*PRQ\*137\*KH\*0\*0\*43 | Intermediate-Peak usage, with begin/end readings |
| MEA\*\*MU\*1 | Meter Multiplier |