**Texas**

**Standard**

**Electronic**

**Transaction**

**867\_02:**

##### Historical Usage

Electronic Data Interchange

ANSI ASC X12 Ver/Rel 004010

Transaction Set 867

**Texas 867\_02:**

Historical Usage

This transaction set...

... from the TDSP to ERCOT is used to report historical usage.

... from ERCOT to the CR is used to report TDSP’s 867\_02 Historical Usage.

Document Flow:

* TDSP to ERCOT
* ERCOT to CR

The Functional Acknowledgement (997) transaction set from the receiver of the originating transaction to the sender of the originating transaction, is used to acknowledge the receipt of the originating transaction and indicate whether the transaction passed ANSI X12 validation. This acknowledgement does not imply that the originating transaction passed Texas SET validation. “CR, TDSP, or ERCOT shall respond with a 997 within 24 hours of receipt of an inbound transaction.”

|  |  |  |
| --- | --- | --- |
|  |  | Summary of Changes |
| August 23, 2000  Version 1.1 |  | Initial Release |
|  |  |  |
| December 12, 2000  Version 1.2 |  | The following changes were made: |
|  |  | * Change the term Utility to Transmission Distribution Service Provider (TDSP) to match ERCOT Protocols. |
|  |  | * Change the term Retail Electric Provider (REP) to Competitive Retailer (CR) to match ERCOT Protocols. |
|  |  | * Change description page transaction purpose to read the same as ERCOT Protocols. |
|  |  | * Insert the “How to use this Implementation Guide” page. |
|  |  | * Remove “.” between X and 12 in all references to ANSI ASC X12. |
|  |  | * Add Structure Page |
|  |  | * Add examples to end of transaction. |
|  |  | * Add Time of Use code 71-- Summer Super On-Peak to MEA07 of PTD~PL loop per Change Control #2000-18. |
| February 15, 2001  Version 1.2a |  | The following changes were made: |
|  |  | * Correct the gray box in the BPT09 element of the BPT segment to read; “Refers to the BGN06 of the Historical Usage Request (814\_03 or 814\_26). This number will be tracked in the BGN06 through the lifecycle of the Registration Process if applicable.” This is per Change Control #2001-043. |
| March 27, 2001  Version 1.3 |  | The following changes were made: |
|  |  | * Update the gray box in the QTY loop for the MEA04 data element "populate C00101" |
|  |  | * Remove Scenarios from cover page |
|  |  | * Clean up Examples |
|  |  | * Replace RA, Settlement, Registration Agent with ERCOT |
|  |  | * Added label to gray box of PTD loops |
|  |  | * Replaced How to Use this Implementation Guide page |
|  |  | * Add code ZY for Adjusted Consumption Code in PTD loops |
|  |  |  |
| August 3, 2001  Version 1.4 |  | The following changes were made: |
|  |  |  |
|  |  | * Modify gray box to clarify that the meter multiplier could be a decimal. Ref. 2001-118 |
|  |  | * Add new un-metered service types. Ref. 2001-047 |
|  |  | * Add language to PTD~PL to clarify the handling of Additive/Subtractive metering and Missing or abundance of consumption. Ref.2001-140 |
|  |  | * Add examples to PTD~PL. Ref. 2001-140 |
|  |  | * Change “Must Use” to “Dep” on the PTD04 and PTD05 in the PTD~PL. Ref. 2001-140 |
|  |  | * Add language to the Gray Box on PTD04 and PTD05 in the PTD~PL. Ref 2001-140 |
|  |  | * Remove “ZY” code from PTD~04 from the PTD~PL. Ref 2001-140 |
|  |  | * Modify gray boxes for the PTD05 & PTD06 in the PTD~PL. Ref 2001-140 |
|  |  | * Add codes to PTD06 in the PTD~PL. Ref 2001-140 |
|  |  | * Change the language in the REF~JH (REF02) gray box in the PTD~PL. Ref 2001-140 |
|  |  | * Change the language in the QTY gray box in the PTD~PL. Ref 2001-140 |
|  |  | * Change the language in the QTY01 gray box in the PTD~PL. Ref 2001-140 |
|  |  | * Change the language in the MEA~~PRQ gray box in the PTD~PL. Ref 2001-140 |
|  |  | * Add language to PTD~BO to clarify the handling of Additive/Subtractive metering and Missing or abundance of consumption. Ref.2001-141 |
|  |  | * Add examples to PTD~ BO. Ref. 2001-141 |
|  |  | * Change “Must Use” to “Dep” on the PTD04 and PTD05 in the PTD~ BO. Ref. 2001-141 |
|  |  | * Add language to the Gray Box on PTD04 and PTD05 in the PTD~ BO. Ref 2001-141 |
|  |  | * Remove “ZY” code from PTD~04 from the PTD~ BO. Ref 2001-141 |
|  |  | * Modify gray boxes for the PTD05 & PTD06 in the PTD~ BO. Ref 2001-141 |
|  |  | * Add codes to PTD06 in the PTD~ BO. Ref 2001-141 |
|  |  | * Change the language in the REF~JH (REF02) gray box in the PTD~ BO. Ref 2001-141 |
|  |  | * Change the language in the QTY gray box in the PTD~ BO. Ref 2001-141 |
|  |  | * Change the language in the QTY01 gray box in the PTD~ BO. Ref 2001-141 |
|  |  | * Change the language in the MEA~~PRQ gray box in the PTD~ BO. Ref 2001-141 |
|  |  | * Add language to PTD~PM to clarify the handling of Additive/Subtractive metering and Missing or abundance of consumption. Ref.2001-142 |
|  |  | * Remove “ZY” code from PTD~04 from the PTD~ PM. Ref 2001-142 |
|  |  | * Modify gray boxes for the PTD05 in the PTD~ PM. Ref 2001-142 |
|  |  | * Change the language in the REF~JH (REF02) gray box in the PTD~ PM. Ref 2001-142 |
|  |  | * Change the language in the QTY gray box in the PTD~ PM. Ref 2001-142 |
|  |  | * Add language and update examples in the MEA (Transformer Loss Factor) in the BO loop. Ref. 2001-148 |
|  |  | * Add clarifying language to the gray boxes in the QTY loops of the PTD~BO, PTD~PM, and PTD~IA loops. Ref. 2001-147 |
|  |  | * Remove the MEA~~PRQ from the PTD~BO Loop. Ref. 2001-153 |
|  |  | * Remove the MEA~~PRQ from the PTD~PL Loop. Ref. 2001-153 |
|  |  | * Add language to the beginning of the Implementation guide that clarifies how daylight savings is handled by ERCOT as it pertains to the LodeStar system. Ref. 2001-100 |
|  |  | * Add language to the beginning of the Implementation guides that clarifies the procedures for usage begin and end dates. Ref. 2001-097 |
|  |  | * Add text to the gray boxes to clarify what special characters may not be used in free-form text fields in the REF03 and N102 elements. Ref. 2001-099 |
|  |  | * Create and inset PTD “Definition and Use” document to be added to the 867 in the beginning notes section. Ref. 2001-094 |
|  |  | * Sorted the PTD loops by logical PTD loop structure. New order: PTD~PL, PTD~BD, PTD~BO, PTD~PM. Ref. 2001-094 |
|  |  | * Modify the ‘This transaction set…’ definition. Ref. 2001-094 |
|  |  | * Edit gray box in the PTD~PL. Ref 2001-094 |
|  |  | * Edit gray box in the PTD05 in the PTD~PL. Ref 2001-094 |
|  |  | * Edit gray box in each QTY in the PTD~PL. Ref 2001-094 |
|  |  | * Edit gray box in the MEA in the PTD~PL. Ref 2001-094 |
|  |  | * Edit gray box in the MEA03 in the PTD~PL. Ref 2001-094 |
|  |  | * Edit gray box in the REF~MT in the PTD~PL. Ref 2001-094 |
|  |  | * Edit gray box in the PTD04 under code ZY in the PTD~PL. Ref 2001-094 |
|  |  | * Edit gray box in the PTD~BO (Interval Summary) loop. Ref 2001-094 |
|  |  | * Edit gray box in each QTY in the PTD~BO (Interval Summary) loop. Ref 2001-094 |
|  |  | * Edit gray box in the PTD04 under code ZY in the PTD~BO. Ref 2001-094 |
|  |  | * Edit gray box in the PTD05 under code ZY in the PTD~BO. Ref 2001-094 |
|  |  | * Edit gray box in each QTY in the PTD~BD (Un-metered Detail) loop. Ref 2001-094 |
|  |  | * Edit gray box in the PTD~PM (Interval Detail) Loop. Ref 2001-094 |
|  |  | * Edit gray box in REF~6W in the PTD~PM (Interval Detail) loop. Ref 2001-094 |
|  |  | * Edit gray box in REF~MT in the PTD~PM (Interval Detail) loop. Ref 2001-094 |
|  |  | * Edit gray box in each QTY in the PTD~PM (Interval Detail) loop. Ref 2001-094 |
|  |  | * Edit gray box in the PTD04 under code ZY in the PTD~PM. Ref 2001-094 |
|  |  | * Edit gray box in the PTD05 under code ZY in the PTD~PM. Ref 2001-094 |
|  |  | * Correct language in the PTD Definition and Usedocument to reflect the correct usage of the PTD~BD Loop. Ref. 2001-122 |
|  |  | * In the PTD~BO (Interval Summary) the REF\*MT marked the ‘K1 - Kilowatt Demand (kW)’ and ‘K2 - Kilovolt Amperes Reactive Demand (kVAr)’ codes as “NOT USED FOR INTERVAL METERS”. Ref. 2001-107 |
|  |  | * In the PTD~PM (Interval Detail), the REF\*MT marked the ‘K1 - Kilowatt Demand (kW)’ and ‘K2 - Kilovolt Amperes Reactive Demand (kVAr)’ codes as “NOT USED” . Ref. 2001-107 |
|  |  | * Added language to the PTD~BO & PTD~PL gray boxes. Ref. 2001-110 |
|  |  | * Added language to the gray boxes in the PTD\*BD, PTD\*BO, PTD\*PL and PTD\*PM Loops. Ref. 2001-111 |
|  |  | * Add gray box statement for all PTD’s. Ref. 2001-105 |
|  |  | * Added REDLINES from CHANGE CONTROLS: * 2001-172 * 2001-190 10/5/01 * 2001-200 10/24/01 * 2001-205 11/14/01 * 2001-209 11/14/01 * 2002-256 02/22/02 |
|  |  |  |
| June 17th, 2002  Version 1.5 |  | The following changes were made: |
|  |  |  |
|  |  | * Removed all references to “COMBO” in REF~MT gray box Ref: 2001-178 |
|  |  | * Added verbiage to clarify gray boxes of the REF~PRT free form text in the REF03, Ref 2001-215 |
|  |  | * Added REF segment for Channel Number to the PTD~BO and notes to the gray box in PTD. Add examples for channel number. Ref: 2002-238. Removed Per Change Control 2002-351. |
|  |  | * Added paragraph in the PTD Definition and Use section to explain MC-TDSP’s reason and method of estimating reads. Ref: 2002-264 |
|  |  | * Removed code “9” DUNS+4 from N103 for ERCOT. Ref: 2002-267 |
| 8/5/02 |  | Change Control 2002-355 – Corrected Implementation guide “Summary of Changes” by cleaning up previously missed or inaccurate additions to Summary of Changes: |
|  |  | * Change Control 2002-355 – Update of Change Control Log to correct typographical errors in Version 1.5 Change Control Numbers for 2001-178 and 2001-215 (incorrectly listed as 2002-178 and 2002-215). Also corrected typographical error in text of Change Control 2002-267: “Remover” corrected to read “Removed”. Errors previously missed at time of update of implementation guide and are needed to reflect the approved change controls. |
| 10/15/02 |  | * Change Control 2002-351 – Removed Change Control 2002-238 from V1.5 |
| 1/15/03 |  | * Change Control 2002-333 – Added the MEA segment back into the PTD~PL. This change was made in V1.4 but was inadvertently left out of the V1.5 guide. |
| May 27th, 2003  Version 1.6 |  | The following changes were made: |
| 5/27/03 |  | * Change Control 2002-386 – Removed D-U-N-S+4 from the N104 gray box in the N1~AY loop |
| 5/29/03 |  | * The gray boxes for the PTD06 codes reference the REF~MT segment when they should reference the REF~JH segment |
| September 29th, 2003  Version 2.0 |  | No Changes |
| October 8, 2004  Version 2.0A |  | Change Control 2004-634:   * As per discussions at the June 04 TX SET meeting, additional language should be added to each Transaction Set to identify the requirements and required response to the 997 Functional acknowledgement – The Functional Acknowledgement (997) transaction set from the receiver of the originating transaction to the sender of the originating transaction, is used to acknowledge the receipt of the originating transaction and indicate whether the transaction passed ANSI X12 validation. This acknowledgement does not imply that the originating transaction passed Texas SET validation. “CR, TDSP, or ERCOT shall respond with a 997 within 24 hours of receipt of an inbound transaction.” |
| March 1, 2005  Version 2.1 |  | Change Control 2005-683:   * Add clarity to the transaction notes section regarding the Texas Market use of characters in alphanumeric fields |
| September 1, 2006  Version 3.0 |  | Change Control 2004-674   * Remove the BPO from the 867\_02 and add applicable information back into the appropriate segment gray boxes of the guide. |
| November 30, 2010  Version 3.0A |  | Change Control 2008-725:   * Update the Implementation Guide for the 867\_03 and 867\_02 to show that the REF~JH~I will be used for kWh Generation values only and to state that if there are multiple REF~JH~I loops in the 867\_03, that ERCOT will only read and use the first one in the transaction that is encountered.   Change Control 2009-729:   * Remove all examples from the TX SET Implementation guides and post them into a separate document for quicker correction and addition of new examples without a TX SET release.   Change Control 2010-731:   * Update the TX SET Guides to correct spelling, grammar and punctuation. * Cleanup of gray box example for consistency. |
| June 4, 2012  Version 4.0 |  | Change Control 2011-783:   * This Change Control appends to 2010-760 and 2010-761 to add codes for Light Emitting Diode and Wi-Fi to the 867\_02 due to being inadvertently left out. |
| November 2, 2020  Version 4.0A |  | Change Control 2020-813   * Administrative updates to the Texas SET 867\_02, 867\_03 and 867\_04 Guides in order to reflect actual transaction processing.   Change Control 2020-820   * Recipients of the Select Language Characters (Special Characters) found in the Extended Character Set of the Application Control Structure can be rejected with a 997 Reject. |

**How to Use this Implementation Guide**

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

**Segment: REF Reference Identification (ESI ID)**

**Position:** 030

**Loop:** LIN Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** >1

**Purpose:** To specify identifying information

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

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

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

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

**Comments:**

This section is used to show the Texas Rules for implementation of this segment.

This section is used to show the Texas Rules for implementation of this segment.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | REF~Q5~~10111111234567890ABCDEFGHIJKLMNOPQRS |

One or more examples.

**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 | | | | | | | |
|  | | | | Q5 |  | Property Control Number | | | | |
|  | | | | | | Electric Service Identifier (ESI ID) | | | |
| Must Use | **REF03** | **352** | **Description** | | | | **X** |  | **AN 1/80** | | |
|  | | | A free-form description to clarify the related data elements and their content | | | | | | | |
|  | | | ESI ID | | | | | | | |

This column shows the Texas use of each data element.

This column shows the X12 attributes for each data element.

M = Mandatory

O= Optional

X = Relational

C = Conditional

AN = Alphanumeric

N# = Implied Decimal at position #

ID = Identification

R = Real

1/30 = Minimum 1, Maximum 30

These are X12 code descriptions, which often do not relate to the Texas descriptions.

X12 cannot keep up with Texas needs, thus, Texas often changes the meaning of existing codes. See the corresponding graybox for the Texas definitions.

**867 Product Transfer and Resale Report**

ANSI ASC X12 Structure

**Functional Group ID=PT**

**Introduction:**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Product Transfer and Resale Report Transaction Set (867) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to: (1) report information about product that has been transferred from one location to another; (2) report sales of product from one or more locations to an end customer; or (3) report sales of a product from one or more locations to an end customer, and demand beyond actual sales (lost orders). Report may be issued by either buyer or seller.

**Heading:**

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

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| M | 010 | ST | Transaction Set Header | M | 1 |  |  |  |  |  |  |  |  |
| M | 020 | BPT | Beginning Segment for Product Transfer and Resale | M | 1 |  |  |  |  |  |  |  |  |
|  | 060 | REF | Reference Identification | O | 12 |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - N1 |  |  | 5 |  |  |  |  |  |  |  |
|  | 080 | N1 | Name | O | 1 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Detail:**

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

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | LOOP ID - PTD |  |  | >1 |  |  |  |  |  |  |  |
| M | 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 |  |  |  |  |  |  |  |  |
|  | 210 | DTM | Date/Time Reference | O | 10 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Summary:**

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

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

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

**Transaction Set Notes**

For use on an alphanumeric field, Texas SET recognizes all characters within the Basic Character Set. Within the Extended Character Set, Texas SET recognizes all character sets except all Select Language Characters found in Section 3.3.2 item (4) of X12 Application Control Structure. Exceptions to ANSI Standards for alphanumeric fields are noted in gray boxes of this Implementation Guide.

Receipt of the Select Language Characters found in Section 3.3.2 item (4) of the Application Control Structure may be rejected with a 997 Reject transaction by recipient.

For reference, the Select Language Characters found in Section 3.3.2 item (4) of the ANSI Standards are:

À|Á|Â|Ä|à|á|â|ä|È|É|Ê|è|é|ê|ë|Ì|Í|Î|ì|í|î|ï|Ò|Ó|Ô|Ö|ò|ó|ô|ö|Ù|Ú|Û|Ü|ù|ú|û|ü|Ç|ç|Ñ|ñ|¿|¡

**Segment: ST Transaction Set Header**

**Position:** 010

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

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

**Syntax Notes:**

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

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | ST~867~000000001 |

**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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | BPT~52~200107310001~20000731~C1~~~~~2000107300003 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **BPT01** | **353** | **Transaction Set Purpose Code** | | | | **M** |  | **ID 2/2** | | |
|  | | | Code identifying purpose of transaction set | | | | | | | |
|  | | | | 52 |  | Response to Historical Inquiry | | | | |
|  | | | | | | Response to a request for historical meter reading | | | |
| **Must Use** | **BPT02** | **127** | **Reference Identification** | | | | **O** |  | **AN 1/30** | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | |
|  | | | A unique transaction identification number assigned by the originator of this transaction. This number must be unique over time.  Transaction Reference numbers will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded. | | | | | | | |
| **Must Use** | **BPT03** | **373** | **Date** | | | | **M** |  | **DT 8/8** | | |
|  | | | Date expressed as CCYYMMDD | | | | | | | |
|  | | | The transaction creation date - the date that the data was processed by the sender's application system. | | | | | | | |
| **Must Use** | **BPT04** | **755** | **Report Type Code** | | | | **O** |  | **ID 2/2** | | |
|  | | | Code indicating the title or contents of a document, report or supporting item | | | | | | | |
|  | | | | C1 |  | Cost Data Summary | | | | |
|  | | | | | | Interval Meters | | | |
|  | | | | DD |  | Distributor Inventory Report | | | | |
|  | | | | | | Non-interval metered and unmetered | | | |
|  | | | | DR |  | Datalog Report | | | | |
|  | | | | | | Mixed Values - reporting cycle contains periods of both non-interval and interval data. | | | |
| **Must Use** | **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 | | | | | | | |
|  | | | Refers to the BGN06 of the Historical Usage Request (814\_03 or 814\_26). This number will be tracked in the BGN06 through the lifecycle of the Registration Process if applicable. | | | | | | | |

**Segment: REF Reference Identification (ESI ID)**

**Position:** 060

**Loop:**

**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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required  Only one REF~Q5 will be sent per transaction. |
|  |  | REF~Q5~~10111111234567890ABCDEFGHIJKLMNOPQRS |

**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 | | | | | | | |
|  | | | | Q5 |  | Property Control Number | | | | |
|  | | | | | | Electric Service Identifier | | | |
| **Must Use** | **REF03** | **352** | **Description** | | | | **X** |  | **AN 1/80** | | |
|  | | | A free-form description to clarify the related data elements and their content | | | | | | | |
|  | | | ESI ID | | | | | | | |
|  | | | ESI ID will only contain uppercase letters (A to Z) and digits (0 to 9). This free-form text can not contain any characters that may be used as element delimiters, sub-element delimiters, segment terminators, or field separators (This includes: asterisk \*, pipes |, tabs, linefeeds, carets ^, angle brackets < >, and tildes ~). ESI ID length must be at least 8 characters and no more than 36 characters. | | | | | | | |

**Segment: N1 Name (Transmission Distribution Service Provider)**

**Position:** 080

**Loop:** N1 Optional

**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:** |  | Required |
|  |  | N1~8S~TDSP COMPANY~1~007909411~~41 (TDSP to ERCOT)  N1~8S~TDSP COMPANY~1~007909411 (ERCOT to CR) |

**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) | | | | |
|  | | | | | | Transmission Distribution Service Provider (TDSP) | | | |
| **Must Use** | **N102** | **93** | **Name** | | | | **X** |  | **AN 1/60** | | |
|  | | | Free-form name | | | | | | | |
|  | | | TDSP Name | | | | | | | |
|  | | | This free-form text can not contain any characters that may be used as element delimiters, sub-element delimiters, segment terminators, or field separators (This includes: asterisk \*, pipes |, tabs, linefeeds, carets ^, angle brackets < >, and tildes ~). | | | | | | | |
| **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 2/80** | | |
|  | | | Code identifying a party or other code | | | | | | | |
|  | | | TDSP D-U-N-S Number or D-U-N-S + 4 Number | | | | | | | |
| **Dep** | **N106** | **98** | **Entity Identifier Code** | | | | **O** |  | **ID 2/3** | | |
|  | | | Code identifying an organizational entity, a physical location, property or an individual | | | | | | | |
|  | | | TDSP to ERCOT: Required  ERCOT to CR: Not Used | | | | | | | |
|  | | | | 41 |  | Submitter | | | | |

**Segment: N1 Name (ERCOT)**

**Position:** 080

**Loop:** N1 Optional

**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:** |  | Required |
|  |  | N1~AY~ERCOT~1~183529049~~40 (TDSP to ERCOT)  N1~AY~ERCOT~1~183529049~~41 (ERCOT to CR) |

**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 | | | | | | | |
|  | | | | AY |  | Clearinghouse | | | | |
|  | | | | | | ERCOT | | | |
| **Must Use** | **N102** | **93** | **Name** | | | | **X** |  | **AN 1/60** | | |
|  | | | Free-form name | | | | | | | |
|  | | | ERCOT Name | | | | | | | |
|  | | | This free-form text can not contain any characters that may be used as element delimiters, sub-element delimiters, segment terminators, or field separators (This includes: asterisk \*, pipes |, tabs, linefeeds, carets ^, angle brackets < >, and tildes ~). | | | | | | | |
| **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 | | | | |
| **Must Use** | **N104** | **67** | **Identification Code** | | | | **X** |  | **AN 2/80** | | |
|  | | | Code identifying a party or other code | | | | | | | |
|  | | | ERCOT D-U-N-S Number | | | | | | | |
| **Must Use** | **N106** | **98** | **Entity Identifier Code** | | | | **O** |  | **ID 2/3** | | |
|  | | | Code identifying an organizational entity, a physical location, property or an individual | | | | | | | |
|  | | | | 40 |  | Receiver | | | | |
|  | | | | 41 |  | Submitter | | | | |

**Segment: N1 Name (Competitive Retailer)**

**Position:** 080

**Loop:** N1 Optional

**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:** |  | Required if Historical Usage was requested by a CR. Not used on initial load of data to the settlement agent.  N1~SJ~CR~9~007909422CRN1 (TDSP to ERCOT)  N1~SJ~CR~9~007909422CRN1~~40 (ERCOT to CR) |

**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 | | | | |
|  | | | | | | Competitive Retailer (CR) | | | |
| **Must Use** | **N102** | **93** | **Name** | | | | **X** |  | **AN 1/60** | | |
|  | | | Free-form name | | | | | | | |
|  | | | CR Name | | | | | | | |
|  | | | This free-form text can not contain any characters that may be used as element delimiters, sub-element delimiters, segment terminators, or field separators (This includes: asterisk \*, pipes |, tabs, linefeeds, carets ^, angle brackets < >, and tildes ~). | | | | | | | |
| **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 2/80** | | |
|  | | | Code identifying a party or other code | | | | | | | |
|  | | | CR D-U-N-S Number or D-U-N-S + 4 Number | | | | | | | |
| **Dep** | **N106** | **98** | **Entity Identifier Code** | | | | **O** |  | **ID 2/3** | | |
|  | | | Code identifying an organizational entity, a physical location, property or an individual | | | | | | | |
|  | | | TDSP to ERCOT: Not Used  ERCOT to CR: Required | | | | | | | |
|  | | | | 40 |  | Receiver | | | | |

**Segment: PTD Product Transfer and Resale Detail (Non-Interval Detail)**

**Position:** 010

**Loop:** PTD Conditional

**Level:** Detail

**Usage:** Conditional

**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 = PL (Non-Interval Detail) |
|  |  | This Loop is used to convey the usage and demand for metered data, at a detail level by meter by unit of measure per meter cycle reporting period.  There will be one PTD~PL Loop for each meter for each unit of measure. There will be a separate PTD~PL Loops to reflect summed adjusted consumption.  For Additive/Subtractive Metering Only:  This loop is also used to for Additive/Subtractive Metering when the Master Meter is on one ESI ID and the additive and/or subtractive meters are on ESI IDs that are different than the master Meter. All additive usage is summed. All subtractive usage is summed. It is possible to receive two additive/subtractive loops - one with summed additive usage and one with summed subtractive usage. When reporting usage for the additive/Master and/or subtractive/Master usage, the meter number is not provided in the PTD04 and PTD05. The type of Master/Subtractive and/or Master/ Additive usage must be provided in the PTD06 by using code "AI" or code "AO".  For Missing or Abundance of Consumption - Non Interval:  This loop is also used to report missing or abundance of consumption when the consumption (added or subtracted) provided has not been registered by the meter, for example: tampering, fast, slow and/or flat/bypass. The conditions exist only for non-interval meters on the same ESI ID. The meter number must be provided in the PTD04 and PTD05. The type of missing or abundance consumption must be provided in the PTD06.  Historical Usage is provided for the most recent 12 months of usage for the premise - not the most recent 12 months of usage for the customer.  The PTD Loop is repeated once for each month of usage provided according to the meter cycle reporting period. For instance, when reporting 12 months of usage (March-February) for un-metered usage, the PTD\*BD is repeated twelve times, one PTD\*BD for March, one PTD\*BD for April, one PTD\*BD for May, etc. for each device type. When reporting 12 months of usage (March-February) for non-interval usage, the PTD\*PL is repeated twelve times, one PTD\*PL for March, one PTD\*PL for April, one PTD\*PL for May, etc. for each meter. When reporting 12 months of usage (March-February) for interval usage, the PTD\*BO and the PTD PM are repeated twelve times each, one PTD\*BO and one PTD\*PM for March, one PTD\*BO and one PTD\*PM for April, one PTD\*BO and one PTD\*PM for May, etc. for each meter. |
|  |  | PTD~PL~~~MG~1234568MG  PTD~PL~~~~~AO (used to report subtractive metering off a master meter)  PTD~PL~~~MG~1234568MG~MD (used to report tampering) |

**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 | | | | | | | |
|  | | | | PL |  | Property Level Movement/Sale | | | | |
|  | | | | | | Non-Interval Detail | | | |
| **Dep** | **PTD04** | **128** | **Reference Identification Qualifier** | | | | **X** |  | **ID 2/3** | | |
|  | | | Code qualifying the Reference Identification | | | | | | | |
|  | | | | MG |  | Meter Number | | | | |
|  | | | | | | Not used if the PTD06= "AO" or "AI" | | | |
| **Dep** | **PTD05** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/30** | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | |
|  | | | Meter Number  Meter numbers will contain only uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and significant leading and trailing zeros that are part of the meter number must be present.  Not used if the PTD06= "AO" or "AI"  When using codes "AI" and "AO", the Meter Number is not provided in the in the PTD04/PTD05.  When using codes "CD", "DC", "DM", and "MD", the Meter Number must be provided in the PTD04/PTD05. | | | | | | | |
|  | **PTD06** | **486** | **Product Transfer Movement Type Code** | | | | **O** |  | **ID 2/2** | | |
|  | | | To indicate the type of product transfer movement | | | | | | | |
|  | | | To indicate the type of product transfer movement. This field is only used when reporting the type of Master/Additive usage, Master/Subtractive usage or missing or abundance of consumption adjustment. | | | | | | | |
|  | | | | AI |  | Adjustment In | | | | |
|  | | | | | | Additive Metering  Additive Usage for Additive meters off the master meter where a different ESI ID has been assigned to the master and/or all applicable subtractive or additive meters. The receiver must add this consumption to the ESI ID. When the PTD06 equals "AI", the REF~JH equals "A". | | | |
|  | | | | AO |  | Adjustment Out | | | | |
|  | | | | | | Subtractive Metering  Subtractive Usage for Subtract meters off the master meter where a different ESI ID has been assigned to the master and/or all applicable subtractive or additive meters. . The receiver must subtract this consumption from the ESI ID. When the PTD06 equals "AO", the REF~JH equals "S". | | | |
|  | | | | CD |  | Customer to Distributor | | | | |
|  | | | | | | Added Flat /Bypass- Missing or Abundance of Consumption  For adjusting consumption when the added consumption provided has not been registered by the meter. The condition exists only for non-interval meters on the same ESI ID. The receiver must add this consumption to the meter number provided in the PTD05. When the PTD06 equals "CD", the REF~JH equals "A". | | | |
|  | | | | DC |  | Distributor to Customer | | | | |
|  | | | | | | Added Slow- Missing or Abundance of Consumption  For adjusting consumption when the added consumption provided has not been registered by the meter. The conditions exists only for non-interval meters on the same ESI ID. The receiver must add this consumption to the meter number provided in the PTD05. When the PTD06 equals "DC", the REF~JH equals "A". | | | |
|  | | | | DM |  | Distributor to Manufacturer | | | | |
|  | | | | | | Subtracted Fast- Missing or Abundance of Consumption  For adjusting consumption when the subtracted consumption provided has not been registered by the meter. The condition exists only for non-interval meters on the same ESI ID. The receiver must add this consumption to the meter number provided in the PTD05. When the PTD06 equals "DM", the REF~JH equals "S". | | | |
|  | | | | MD |  | Manufacturer to Distributor | | | | |
|  | | | | | | Added Tampering- Missing or Abundance of Consumption  For adjusting consumption when the added consumption provided has not been registered by the meter. The condition exists only for non-interval meters on the same ESI ID. The receiver must add this consumption to the meter number provided in the PTD05. When the PTD06 equals "MD", the REF~JH equals "A". | | | |

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

**Position:** 020

**Loop:** PTD Conditional

**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:** |  | PTD = PL (Non-Interval Detail) |
|  |  | Required, unless an Exchange Date (DTM~514) is substituted for this code. |
|  |  | DTM~150~20010101 |

**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 (Service Period End)**

**Position:** 020

**Loop:** PTD Conditional

**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:** |  | PTD = PL (Non-Interval Detail) |
|  |  | Required, unless an Exchange Date (DTM~514) is substituted for this code. |
|  |  | DTM~151~20010131 |

**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 (Exchange Date)**

**Position:** 020

**Loop:** PTD Conditional

**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:** |  | PTD = PL (Non-Interval Detail) |
|  |  | Required when a meter is exchanged and the meter agent does not change. |
|  |  | Date Range in the first PTD is shown as:  DTM~150~20010101  DTM~514~20010114  Date Range in the second PTD is shown as:  DTM~514~20010114  DTM~151~20010128 |

**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 | | | | |
|  | | | | | | Exchange Date | | | |
| **Must Use** | **DTM02** | **373** | **Date** | | | | **X** |  | **DT 8/8** | | |
|  | | | Date expressed as CCYYMMDD | | | | | | | |

**Segment: REF Reference Identification (Meter Role)**

**Position:** 030

**Loop:** PTD Conditional

**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:** |  | PTD = PL (Non-Interval Detail) |
|  |  | Required  REF~JH~I shall only be used for Generation values.  If there are multiple REF~JH~I loops in the transaction, ERCOT will only read and settle using the first REF~JH~I encountered in the transaction. |
|  |  | 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 |  | Tag | | | | |
|  | | | | | | 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 | | | | | | | |
|  | | | | A |  | Additive | | | | |
|  | | | | | | This consumption must be added to the summarized total | | | |
|  | | | | I |  | Ignore | | | | |
|  | | | | | | This shall only be used for Generation values. | | | |
|  | | | | S |  | Subtractive | | | | |
|  | | | | | | This consumption must be subtracted from the summarized total | | | |

**Segment: REF Reference Identification (Meter Type)**

**Position:** 030

**Loop:** PTD Conditional

**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:** |  | PTD = PL (Non-Interval Detail)  This segment is sent to indicate the type of usage that is reported in this PTD loop. |
|  |  | Required |
|  |  | REF~MT~KHMON |

**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 | | | | | | | |
|  | | | | MT |  | Meter Ticket Number | | | | |
|  | | | | | | Meter Type | | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/30** | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | |
|  | | | When REF01 is MT, the meter type is expressed as a five-character field. The first two characters are the type of consumption, the last three characters are the metering interval reported by the metering agent. Valid values can be a combination of the following values:  Type of Consumption  K1 Kilowatt Demand (kW)  K2 Kilovolt Amperes Reactive Demand (kVAR)  K3 Kilovolt Amperes Reactive Hour (kVARH)  K4 Kilovolt Amperes (kVA)  KH Kilowatt Hour (kWh)  Metering Interval Reported for Billing Purposes  nnn Number of minutes from 001 to 999  DAY Daily  MON Monthly  For Example:    KHMON Kilowatt Hours Per Month  K1015 Kilowatt Demand per 15 minute interval | | | | | | | |

**Segment: QTY Quantity**

**Position:** 110

**Loop:** QTY Optional

**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:** |  | PTD = PL (Non-Interval Detail) |
|  |  | There will be one QTY loop for each Time of Use (i.e., one for On Peak kWh, one for Off Peak kWh, one for Total kWh, etc.)  Note Quantity is the total measured consumption for the billable period including all billable adjustments applicable, e.g., transformer loss factor and the meter multiplier. The Quantity in the QTY02 has not been adjusted for any additive/Master Meter, subtractive/Master Meter or missing or abundance of consumption occurring in the PTD~PL when the PTD06 has a valid code.  The QTY02 must equal the MEA03 when the MEA03 is provided.  Required |
|  |  | QTY~QD~1000 |

**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 | | | | | | | |
|  | | | | 92 |  | Allotted Usage Quantity | | | | |
|  | | | | | | Estimated for reasons beyond the control of MDMA | | | |
|  | | | | AO |  | Verified Receipts | | | | |
|  | | | | | | Verified as actual value | | | |
|  | | | | KA |  | Estimated | | | | |
|  | | | | | | Quantity is estimated | | | |
|  | | | | QD |  | Quantity Delivered | | | | |
|  | | | | | | Quantity is actual | | | |
| **Must Use** | **QTY02** | **380** | **Quantity** | | | | **X** |  | **R 1/15** | | |
|  | | | Numeric value of quantity | | | | | | | |
|  | | | Total Consumption / Max Demand | | | | | | | |

**Segment: MEA Measurements (Meter Reads)**

**Position:** 160

**Loop:** QTY Optional

**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:** |  | PTD = PL (Non-Interval Detail) |
|  |  | Required  MEA03 must equal QYT02 when the MEA07=51 |
|  |  | MEA~~PRQ~1000~~~~51 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **MEA02** | **738** | **Measurement Qualifier** | | | | **O** |  | **ID 1/3** | | |
|  | | | Code identifying a specific product or process characteristic to which a measurement applies | | | | | | | |
|  | | | | PRQ |  | Product Reportable Quantity | | | | |
|  | | | | | | Consumption | | | |
| **Must Use** | **MEA03** | **739** | **Measurement Value** | | | | **X** |  | **R 1/20** | | |
|  | | | The value of the measurement | | | | | | | |
|  | | | Total consumption after multiplier is applied. | | | | | | | |
| **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 | | | | |
|  | | | | | | Mid-Peak | | | |
|  | | | | 51 |  | Total | | | | |
|  | | | | | | Totalizer/Total/Max (Demand) | | | |
|  | | | | 71 |  | Low | | | | |
|  | | | | | | Summer Super On-Peak | | | |

**Segment: MEA Measurements (Transformer Loss Factor)**

**Position:** 160

**Loop:** QTY Optional

**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:** |  | PTD = PL (Non-Interval Detail) |
|  |  | Required when the transformer loss is not measured by the meter  "Where the delivery point is prior to the transformation such that the customer is responsible for losses and the meter is after the transformer and therefore does not record losses, the transformer loss factor will be greater that unity. E.g. 1.006, to reflect a positive adjustment to the meter readiness. Where the delivery point is after the transformation such that the customer is not responsible for transformer losses, and the meter is prior to the transformer and therefore does reflect transformer losses, the transformer loss factor will be less that unity. E.g. 0.995, to reflect a negative adjustment to the meter readings." |
|  |  | The value in the field will always be a positive value, for example:  MEA~~CO~1.015 (format when the factor is positive)  MEA~~CO~.985 (format when the factor is negative) |

**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 |  | Core Loss | | | | |
|  | | | | | | Transformer Loss Factor | | | |
| **Must Use** | **MEA03** | **739** | **Measurement Value** | | | | **X** |  | **R 1/20** | | |
|  | | | The value of the measurement | | | | | | | |
|  | | | Transformer Loss Factor | | | | | | | |

**Segment: MEA Measurements (Meter Multiplier)**

**Position:** 160

**Loop:** QTY Optional

**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:** |  | PTD = PL (Non-Interval Detail)  If no meter multiplier, then populate with "1"  Note: Format of the multiplier could be in the form of a fraction (e.g. 48.78432) |
|  |  | Required |
|  |  | MEA~~MU~1 |

**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 | | | | |
|  | | | | | | Meter Multiplier  (Ending Reading - Beginning Reading) \* Meter Multiplier = Billed Usage | | | |
| **Must Use** | **MEA03** | **739** | **Measurement Value** | | | | **X** |  | **R 1/20** | | |
|  | | | The value of the measurement | | | | | | | |
|  | | | Meter Multiplier | | | | | | | |

**Segment: MEA Measurements (Power Factor)**

**Position:** 160

**Loop:** QTY Optional

**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:** |  | PTD = PL (Non-Interval Detail)  Required if measured |
|  |  | 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 | | | | | | | |
|  | | | Power Factor | | | | | | | |

**Segment: PTD Product Transfer and Resale Detail (Unmetered Services)**

**Position:** 010

**Loop:** PTD Conditional

**Level:** Detail

**Usage:** Conditional

**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 = BD (Unmetered Services) |
|  |  | This Loop is used to convey the usage for unmetered data, at a detail level by unmetered device type per meter cycle reporting period.  One PTD per device type per meter cycle per ESI ID. Total consumption for all unmetered services at the unmetered device detail level. One PTD Loop is required for each unmetered device type per each unique wattage and/or lumen reported. Even though some of the consumption may be estimated, the consumption is reported as actual quantity delivered for unmetered services. The detail is required for Unmetered Services.  Historical Usage is provided for the most recent 12 months of usage for the premise - not the most recent 12 months of usage for the customer.  The PTD Loop is repeated once for each month of usage provided according to the meter cycle reporting period. For instance, when reporting 12 months of usage (March-February) for un-metered usage, the PTD\*BD is repeated twelve times, one PTD\*BD for March, one PTD\*BD for April, one PTD\*BD for May, etc. for each device type. When reporting 12 months of usage (March-February) for non-interval usage, the PTD\*PL is repeated twelve times, one PTD\*PL for March, one PTD\*PL for April, one PTD\*PL for May, etc. for each meter. When reporting 12 months of usage (March-February) for interval usage, the PTD\*BO and the PTD PM are repeated twelve times each, one PTD\*BO and one PTD\*PM for March, one PTD\*BO and one PTD\*PM for April, one PTD\*BO and one PTD\*PM for May, etc. for each meter.  Example: 300 Mercury Vapor Lights (one device type) where 100 lights are 750 watts and 200 are 800 watts. One PTD\*BD Loop is sent to provide the Mercury Vapor Device Type reporting 750 watts for the 100 lights, with one REF\*PRT reporting the 750 watts and one QTY Loop showing the usage calculation for the 100 lights. Another PTD\*BD Loop is sent to provide the Mercury Vapor Device Type reporting 800 watts for the 200 lights, with one REF\*PRT reporting the 800 watts and one QTY Loop showing the usage calculation for the 200 lights. |
|  |  | PTD~BD |

**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 | | | | | | | |
|  | | | | BD |  | Issue - Other Department | | | | |
|  | | | | | | Unmetered Services Detail | | | |

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

**Position:** 020

**Loop:** PTD Conditional

**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:** |  | PTD = BD (Unmetered Services) |
|  |  | Required |
|  |  | DTM~150~20010101 |

**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 (Service Period End)**

**Position:** 020

**Loop:** PTD Conditional

**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:** |  | PTD = BD (Unmetered Services) |
|  |  | Required |
|  |  | DTM~151~20010131 |

**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: REF Reference Identification (Unmetered Service Type)**

**Position:** 030

**Loop:** PTD Conditional

**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 segment is used to provide additional information to the CR for the specified Unmetered Service. It describes the type of device which this measurement loop references and can include additional text information which may be useful to the CR (i.e., a specific wattage of a light, additional text information for further clarification, etc.)  PTD = BD (Unmetered Services) |
|  |  | Required if there are unmetered services on the account |
|  |  | REF~PRT~MV~750  REF~PRT~SD~400 Company Owned  REF~PRT~SD~400 Customer Owned  REF~PRT~MV~Third party maintained facilities |

**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 | | | | | | | |
|  | | | | PRT |  | Product Type | | | | |
|  | | | | | | Defined Unmetered Service Type | | | |
| **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 | | | | | | | |
|  | | | If a new code is needed, it must be requested via the Change Control process. | | | | | | | |
|  | | | | AN |  | Antenna | | | | |
|  | | | | AR |  | Argon | | | | |
|  | | | | BB |  | Bill Boards | | | | |
|  | | | | BS |  | Bus Shelters | | | | |
|  | | | | CU |  | Cat Unit | | | | |
|  | | | | ED |  | Electronic Device | | | | |
|  | | | | FL |  | Fluorescent | | | | |
|  | | | | HA |  | Historical/Antique | | | | |
|  | | | | IN |  | Incandescent | | | | |
|  | | | | LE |  | Light Emitting Diode | | | | |
|  | | | | LV |  | Levee | | | | |
|  | | | | MH |  | Metal Halide | | | | |
|  | | | | MV |  | Mercury Vapor | | | | |
|  | | | | OT |  | Other Un-Metered | | | | |
|  | | | | PA |  | Power Analog node | | | | |
|  | | | | PB |  | Phone Booth | | | | |
|  | | | | PO |  | Phone Outlet | | | | |
|  | | | | PS |  | Pump Station | | | | |
|  | | | | RR |  | Rail Road Crossings | | | | |
|  | | | | SD |  | Sodium | | | | |
|  | | | | TL |  | Traffic Lights | | | | |
|  | | | | TR |  | Transceiver | | | | |
|  | | | | WF |  | Wi-Fi (Wireless Fidelity) | | | | |
|  | | | | WM |  | Wallpacked Mercury Vapor | | | | |
|  | | | | WS |  | Warning Sirens | | | | |
| **Dep** | **REF03** | **352** | **Description** | | | | **X** |  | **AN 1/80** | | |
|  | | | A free-form description to clarify the related data elements and their content | | | | | | | |
|  | | | Used to provide additional clarification information to the CR for the Unmetered Service when necessary. When applicable, used to provide the specific wattage/lumens for a light. | | | | | | | |
|  | | | This free-form text can not contain any characters that may be used as element delimiters, sub-element delimiters, segment terminators, or field separators (This includes: asterisk \*, pipes |, tabs, linefeeds, carets ^, angle brackets < >, and tildes ~). | | | | | | | |

**Segment: QTY Quantity**

**Position:** 110

**Loop:** QTY Optional

**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:** |  | PTD = BD (Unmetered Services) |
|  |  | One QTY Loop is required for each consumption quantity per device.  Note: The billable quantity is the total unmetered consumption per device type for the billable period. There is no PTD06= "AI","A0","CD","DC","DM" or "MD" Adjusted Consumption in this loop. |
|  |  | QTY~QD~2000~EA^^20^KH^^100 |

**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 |  | Quantity Delivered | | | |
| **Must Use** | **QTY02** | **380** | **Quantity** | | | | **X** |  | **R 1/15** | |
|  | | | Numeric value of quantity | | | | | | |
|  | | | Total consumption of device type. | | | | | | |
| **Must Use** | **QTY03** | **C001** | **Composite Unit of Measure** | | | | **O** |  |  | |
|  | | | To identify a composite unit of measure (See Figures Appendix for examples of use) | | | | | | |
|  | | | Note this is a composite data element, populate C00101 | | | | | | |
| **Must Use** | **C00101** | **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 | | | | | | |
|  | | | | EA |  | Each | | | |
| **Must Use** | **C00103** | **649** | **Multiplier** | | | | **O** |  | **R 1/10** | |
|  | | | Value to be used as a multiplier to obtain a new value | | | | | | |
|  | | | Number of unmetered devices for this specific Unmetered Service Type (as defined in the REF~PRT segment). | | | | | | |
| **Must Use** | **C00104** | **355** | **Unit or Basis for Measurement Code** | | | | **O** |  | **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 | | | |
| **Must Use** | **C00106** | **649** | **Multiplier** | | | | **O** |  | **R 1/10** | |
|  | | | Value to be used as a multiplier to obtain a new value | | | | | | |
|  | | | This represents the consumption quantity per device | | | | | | |

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

**Position:** 010

**Loop:** PTD Conditional

**Level:** Detail

**Usage:** Conditional

**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 = BO (Interval Summary) |
|  |  | The PTD\*BO Loops sum the intervals for the month by unit of measure for each meter. In the PTD\*BO consumption across intervals and across the same unit of measure is summarized at the meter level by meter cycle reporting period. Demand is never reported in the PTD\*BO Loop. Individual intervals are not reported in the PTD01=BO Loop.  One PTD~BO loop is required for each meter for each unit of measure. There will be separate PTD~BO Loops to reflect summed adjusted consumption.  For Additive/Subtractive Metering Only:  This loop is also used to for Additive/Subtractive Metering when the Master Meter is on one ESI ID and the additive and/or subtractive meters are on ESI IDs that are different than the master Meter. All additive usage is summed. All subtractive usage is summed. It is possible to receive two additive/subtractive loops - one with summed additive usage and one with summed subtractive usage When reporting usage for the additive/Master and/or subtractive/Master usage, the meter number is not provided in the PTD04 and PTD05. The type of Master/Subtractive and/or Master/ Additive usage must be provided in the PTD06 by using code "AI" or code "AO". No netted usage is reported in this Loop. The receiver must net the PTD~BO Loops to determine Master Meter usage.  Missing or Abundance of Consumption:  Not reported for Interval Meters.  Historical Usage is provided for the most recent 12 months of usage for the premise - not the most recent 12 months of usage for the customer.  The PTD Loop is repeated once for each month of usage provided according to the meter cycle reporting period. For instance, when reporting 12 months of usage (March-February) for un-metered usage, the PTD\*BD is repeated twelve times, one PTD\*BD for March, one PTD\*BD for April, one PTD\*BD for May, etc. for each device type. When reporting 12 months of usage (March-February) for non-interval usage, the PTD\*PL is repeated twelve times, one PTD\*PL for March, one PTD\*PL for April, one PTD\*PL for May, etc. for each meter. When reporting 12 months of usage (March-February) for interval usage, the PTD\*BO and the PTD PM are repeated twelve times each, one PTD\*BO and one PTD\*PM for March, one PTD\*BO and one PTD\*PM for April, one PTD\*BO and one PTD\*PM for May, etc. for each meter. |
|  |  | PTD~BO~~~MG~1234568MG  PTD~BO~~~~~AI (used to report Additive/Master metering usage)  PTD~BO~~~~~AO (used to report Subtractive/Master metering usage) |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **PTD01** | **521** | **Product Transfer Type Code** | | | | **M** |  | **ID 2/2** | | |
|  | | | Code identifying the type of product transfer | | | | | | | |
|  | | | | BO |  | Designated Items | | | | |
|  | | | | | | Interval Summary - interval meter consumption summarized across intervals. | | | |
| **Dep** | **PTD04** | **128** | **Reference Identification Qualifier** | | | | **X** |  | **ID 2/3** | | |
|  | | | Code qualifying the Reference Identification | | | | | | | |
|  | | | | MG |  | Meter Number | | | | |
|  | | | | | | Not used if the PTD06 = "AO" or "AI". | | | |
| **Dep** | **PTD05** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/30** | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | |
|  | | | Meter Number  Meter numbers will contain only uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and significant leading and trailing zeros that are part of the meter number must be present.  Not used if the PTD06 = "AO" or "AI". | | | | | | | |
|  | **PTD06** | **486** | **Product Transfer Movement Type Code** | | | | **O** |  | **ID 2/2** | | |
|  | | | To indicate the type of product transfer movement | | | | | | | |
|  | | | | AI |  | Adjustment In | | | | |
|  | | | | | | Additive Metering  Additive Usage for Additive meters off the master meter where a different ESI ID has been assigned to the master and/or all applicable subtractive or additive meters. When the PTD06 equals "AI", the REF~JH equals "A". | | | |
|  | | | | AO |  | Adjustment Out | | | | |
|  | | | | | | Subtractive Metering  Additive Usage for Subtract meters off the master meter where a different ESI ID has been assigned to the master and/or all applicable subtractive or additive meters. . When the PTD06 equals "AO", the REF~JH equals "A". | | | |

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

**Position:** 020

**Loop:** PTD Conditional

**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:** |  | PTD = BO (Interval Summary) |
|  |  | Required, unless an Exchange Date (DTM~514) is substituted for this code. |
|  |  | DTM~150~20010101 |

**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 (Service Period End)**

**Position:** 020

**Loop:** PTD Conditional

**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:** |  | PTD = BO (Interval Summary) |
|  |  | Required, unless an Exchange Date (DTM~514) is substituted for this code. |
|  |  | DTM~151~20010131 |

**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 (Exchange Date)**

**Position:** 020

**Loop:** PTD Conditional

**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:** |  | PTD = BO (Interval Summary) |
|  |  | Required when a meter is exchanged and the meter agent does not change. |
|  |  | 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 | | | | |
|  | | | | | | Exchange Date | | | |
| **Must Use** | **DTM02** | **373** | **Date** | | | | **X** |  | **DT 8/8** | | |
|  | | | Date expressed as CCYYMMDD | | | | | | | |

**Segment: REF Reference Identification (Meter Role)**

**Position:** 030

**Loop:** PTD Conditional

**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:** |  | PTD = BO (Interval Summary) |
|  |  | Required |
|  |  | 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 |  | Tag | | | | |
|  | | | | | | 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 | | | | | | | |
|  | | | | A |  | Additive | | | | |
|  | | | | | | This consumption must be added to the summarized total | | | |
|  | | | | I |  | Ignore | | | | |
|  | | | | | | This consumption did not contribute to the summarized total (do nothing) | | | |
|  | | | | S |  | Subtractive | | | | |
|  | | | | | | This consumption must be subtracted from the summarized total | | | |

**Segment: REF Reference Identification (Meter Type)**

**Position:** 030

**Loop:** PTD Conditional

**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:** |  | PTD = BO (Interval Summary)  This segment is sent primarily to indicate the type of usage that is reported in this PTD loop. There will be one PTD loop for each unit of measure. |
|  |  | Required |
|  |  | REF~MT~KHMON |

**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 | | | | | | | |
|  | | | | MT |  | Meter Ticket Number | | | | |
|  | | | | | | Meter Type | | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/30** | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | |
|  | | | When REF01 is MT, the meter type is expressed as a five-character field. The first two characters are the type of consumption, the last three characters are the metering interval reported by the metering agent. Valid values can be a combination of the following values:  Type of Consumption  K1 Kilowatt Demand (kW)  NOT USED FOR INTERVAL METERS  K2 Kilovolt Amperes Reactive Demand (kVAR)  NOT USED FOR INTERVAL METERS  K3 Kilovolt Amperes Reactive Hour (kVARH)  K4 Kilovolt Amperes (kVA)  KH Kilowatt Hour (kWh)  Metering Interval Reported for Billing Purposes  nnn Number of minutes from 001 to 999  DAY Daily  MON Monthly  For Example:    KHMON Kilowatt Hours Per Month  K1015 Kilowatt Demand per 15 minute interval | | | | | | | |

**Segment: QTY Quantity**

**Position:** 110

**Loop:** QTY Optional

**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:** |  | PTD = BO (Interval Summary) |
|  |  | Required  Note: Quantity is the total measured consumption for the billable period including all billable adjustments applicable, e.g., transformer loss factor and the meter multiplier. The quantity in the QTY02 as not been adjusted for any master/additive/ subtractive meter usage. The QTY02 must equal the MEA03 when the MEA03 is provided.  Quantity is sent with a minimum of two digits and a maximum of four digits to the right of the decimal point, e.g., 525.15; 567.1375, etc., while adhering to the ANSI rules for providing Real numbers. For instance, if the quantity reported is:  525 then the QTY02 is reported as 525  525.1275 then the QTY02 is reported as 525.1275  525.12 then the QTY02 is reported as 525.12  525.10 then the QTY02 is reported as 525.1  0 then the QTY02 is reported as 0  Leading zeros are suppressed and trailing zeros are truncated. Please refer to ANSI ASC X12 Version 004010 for further information on ANSI data elements, segments and loop usage and requirements.  TDSPs should round - not truncate to adhere to the min/max requirements of 2/4 digits to the right of the decimal. |
|  |  | QTY~QD~746 |

**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 is estimated | | | |
|  | | | | QD |  | Quantity Delivered | | | | |
|  | | | | | | Quantity is actual | | | |
| **Must Use** | **QTY02** | **380** | **Quantity** | | | | **X** |  | **R 1/15** | | |
|  | | | Numeric value of quantity | | | | | | | |

**Segment: MEA Measurements (Transformer Loss Factor)**

**Position:** 160

**Loop:** QTY Optional

**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:** |  | PTD = BO (Interval Summary) |
|  |  | Required when the transformer loss is not measured by the meter  "Where the delivery point is prior to the transformation such that the customer is responsible for losses and the meter is after the transformer and therefore does not record losses, the transformer loss factor will be greater that unity. E.g. 1.006, to reflect a positive adjustment to the meter readiness. Where the delivery point is after the transformation such that the customer is not responsible for transformer losses, and the meter is prior to the transformer and therefore does reflect transformer losses, the transformer loss factor will be less that unity. E.g. 0.995, to reflect a negative adjustment to the meter readings." |
|  |  | The value in the field will always be a positive value, for example:  MEA~~CO~1.015 (format when the factor is positive)  MEA~~CO~.985 (format when the factor is negative) |

**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 |  | Core Loss | | | | |
|  | | | | | | Transformer Loss Factor | | | |
| **Must Use** | **MEA03** | **739** | **Measurement Value** | | | | **X** |  | **R 1/20** | | |
|  | | | The value of the measurement | | | | | | | |
|  | | | Transformer Loss Factor | | | | | | | |

**Segment: MEA Measurements (Power Factor)**

**Position:** 160

**Loop:** QTY Optional

**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:** |  | PTD = BO (Interval Summary) |
|  |  | Required if measured |
|  |  | 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 | | | | | | | |
|  | | | Power Factor | | | | | | | |

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

**Position:** 010

**Loop:** PTD Conditional

**Level:** Detail

**Usage:** Conditional

**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 = PM (Interval Detail) |
|  |  | One PTD~PM loop is required for each meter channel for each unit of measure.  ERCOT TDSPs must report 15-minute intervals in the PTD~PM. Non-ERCOT TDSPs are not bound by this requirement and may report in other interval increments.  For Additive and Subtractive Metering Only:  The Master Meter interval usage is provided in this loop. The intervals for the Master Meter have not been netted, e.g. the intervals reflect what the Master Meter read and are not adjusted for additive or subtractive meters that are on different ESI IDs behind the Master Meter.  Missing or Abundance of Consumption:  Not reported for Interval Meters.  Historical Usage is provided for the most recent 12 months of usage for the premise - not the most recent 12 months of usage for the customer.  The PTD Loop is repeated once for each month of usage provided according to the meter cycle reporting period. For instance, when reporting 12 months of usage (March-February) for un-metered usage, the PTD\*BD is repeated twelve times, one PTD\*BD for March, one PTD\*BD for April, one PTD\*BD for May, etc. for each device type. When reporting 12 months of usage (March-February) for non-interval usage, the PTD\*PL is repeated twelve times, one PTD\*PL for March, one PTD\*PL for April, one PTD\*PL for May, etc. for each meter. When reporting 12 months of usage (March-February) for interval usage, the PTD\*BO and the PTD PM are repeated twelve times each, one PTD\*BO and one PTD\*PM for March, one PTD\*BO and one PTD\*PM for April, one PTD\*BO and one PTD\*PM for May, etc. for each meter. |
|  |  | PTD~PM~~~MG~1234568MG |

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

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

**Position:** 020

**Loop:** PTD Conditional

**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:** |  | PTD = PM (Interval Detail) |
|  |  | Required, unless an Exchange Date (DTM~514) is substituted for this code. |
|  |  | DTM~150~20010101 |

**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 (Service Period End)**

**Position:** 020

**Loop:** PTD Conditional

**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:** |  | PTD = PM (Interval Detail) |
|  |  | Required, unless an Exchange Date (DTM~514) is substituted for this code. |
|  |  | DTM~151~20010131 |

**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 (Exchange Date)**

**Position:** 020

**Loop:** PTD Conditional

**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:** |  | PTD = PM (Interval Detail) |
|  |  | Required when a meter is exchanged and the meter agent does not change. |
|  |  | Date Range in the first PTD is shown as:  DTM~150~20010101  DTM~514~20010114~1200  Date Range in the second PTD is shown as:  DTM~514~20010114~1200  DTM~151~20010128 |

**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 | | | | |
|  | | | | | | Exchange Date | | | |
| **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, where H = Hours (00 to 23) and M = Minutes (00 to 59) in Central Prevailing Time (CT). For this transaction, since X12 does not allow 2400 for time, 2359 will be used to indicate midnight. For example, midnight between October 15th and October 16th will be reflected as 2359 of October 15th. | | | | | | | |

**Segment: REF Reference Identification (Channel Number)**

**Position:** 030

**Loop:** PTD Conditional

**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:** |  | PTD = PM (Interval Detail) |
|  |  | Required |
|  |  | REF~6W~2 |

**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 | | | | | | | |
|  | | | | 6W |  | Sequence Number | | | | |
|  | | | | | | Channel 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 | | | | | | | |
|  | | | Channel Number | | | | | | | |

**Segment: REF Reference Identification (Meter Type)**

**Position:** 030

**Loop:** PTD Conditional

**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:** |  | PTD = PM (Interval Detail) |
|  |  | This segment is sent to indicate the type of usage that is reported in this PTD loop.  Required |
|  |  | REF~MT~KHMON |

**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 | | | | | | | |
|  | | | | MT |  | Meter Ticket Number | | | | |
|  | | | | | | Meter Type | | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/30** | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | |
|  | | | When REF01 is MT, the meter type is expressed as a five-character field. The first two characters are the type of consumption, the last three characters are the metering interval reported by the metering agent. Valid values can be a combination of the following values:  Type of Consumption  K1 Kilowatt Demand (kW)  NOT USED  K2 Kilovolt Amperes Reactive Demand (kVAR)  NOT USED  K3 Kilovolt Amperes Reactive Hour (kVARH)  K4 Kilovolt Amperes (kVA)  KH Kilowatt Hour (kWh)  Metering Interval Reported for Billing Purposes  nnn Number of minutes from 001 to 999  DAY Daily  MON Monthly  For Example:    KHMON Kilowatt Hours Per Month  K1015 Kilowatt Demand per 15 minute interval | | | | | | | |

**Segment: REF Reference Identification (Meter Role)**

**Position:** 030

**Loop:** PTD Conditional

**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:** |  | PTD = PM (Interval Detail) |
|  |  | Required |
|  |  | 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 |  | Tag | | | | |
|  | | | | | | 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 | | | | | | | |
|  | | | | A |  | Additive | | | | |
|  | | | | | | This consumption must be added to the summarized total | | | |
|  | | | | I |  | Ignore | | | | |
|  | | | | | | This consumption did not contribute to the summarized total (do nothing) | | | |
|  | | | | S |  | Subtractive | | | | |
|  | | | | | | This consumption must be subtracted from the summarized total | | | |

**Segment: QTY Quantity**

**Position:** 110

**Loop:** QTY Optional

**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:** |  | PTD = PM (Interval Detail) |
|  |  | Required  Note: Quantity is the total measured interval consumption for the billable period including all billable adjustments applicable, e.g., transformer loss factor and the meter multiplier. The quantity in the QTY02 has not been adjusted for any additive or subtractive usage.  Quantity is sent with a minimum of two digits and a maximum of four digits to the right of the decimal point, e.g., 525.15; 567.1375, etc., while adhering to the ANSI rules for providing Real numbers. For instance, if the quantity reported is:  525 then the QTY02 is reported as 525  525.1275 then the QTY02 is reported as 525.1275  525.12 then the QTY02 is reported as 525.12  525.10 then the QTY02 is reported as 525.1  0 then the QTY02 is reported as 0  Leading zeros are suppressed and trailing zeros are truncated. Please refer to ANSI ASC X12 Version 004010 for further information on ANSI data elements, segments and loop usage and requirements.  TDSPs should round - not truncate to adhere to the min/max requirements of 2/4 digits to the right of the decimal. |
|  |  | QTY~QD~22348 |

**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 is estimated | | | |
|  | | | | QD |  | Quantity Delivered | | | | |
|  | | | | | | Quantity is actual | | | |
| **Must Use** | **QTY02** | **380** | **Quantity** | | | | **X** |  | **R 1/15** | | |
|  | | | Numeric value of quantity | | | | | | | |

**Segment: DTM Date/Time Reference (Interval End Time)**

**Position:** 210

**Loop:** QTY Optional

**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:** |  | PTD = PM (Interval Detail) |
|  |  | Required |
|  |  | DTM~194~20010115~1500 |

**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 | | | | | | | |
|  | | | | 194 |  | Period End | | | | |
|  | | | | | | The date/time of the end of the interval | | | |
| **Must Use** | **DTM02** | **373** | **Date** | | | | **X** |  | **DT 8/8** | | |
|  | | | Date expressed as CCYYMMDD | | | | | | | |
| **Must Use** | **DTM03** | **337** | **Time** | | | | **X** |  | **TM 4/8** | | |
|  | | | Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) | | | | | | | |
|  | | | HHMM, where H = Hours (00 to 23) and M = Minutes (00 to 59) in Central Prevailing Time (CT). For this transaction, since X12 does not allow 2400 for time, 2359 will be used to indicate midnight. For example, midnight between October 15th and October 16th will be reflected as 2359 of October 15th. | | | | | | | |

**Segment: SE Transaction Set Trailer**

**Position:** 030

**Loop:**

**Level:** Summary

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

**Syntax Notes:**

**Semantic Notes:**

**Comments:** **1** SE is the last segment of each transaction set.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | SE~42~000000001 |

**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 | | | |