**Texas**

**Standard**

**Electronic**

**Transaction**

**867\_03:**

##### Monthly or Final Usage

Electronic Data Interchange

ANSI ASC X12 Ver/Rel 004010

Transaction Set 867

**Texas 867\_03:**

Monthly or Final Usage

This transaction set...

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

...from ERCOT to the CR, is used to report TDSP’s 867\_03 Monthly Usage.

...from ERCOT to the TDSP and CR of record for that day for ERCOT POLLED SERVICES

Document Flow:

* TDSP to ERCOT
* ERCOT to CR
* ERCOT to TDSP (for EPS)

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 DTM03 Time Element to DTM~150 Service Period Start Date of PTD~PP loop and correct gray box example to reflect this change per Change Control #2000-16. |
|  |  | * Add DTM03 Time Element to DTM~151 Service Period End Date of PTD~PP loop and correct gray box example to reflect this change per Change Control #2000-16. |
|  |  | * Add PTD~SU loop per Change Control #2000-017. |
| March 27,2001  Version 1.3 |  | The following changes were made: |
|  |  | * Remove Scenarios from cover page |
|  |  | * Correct examples MEA03 = R decimal |
|  |  | * Update gray box in the QTY loop for the MEA04 data element "populate C00101" |
|  |  | * Replace RA, Settlement, Registration Agent with ERCOT |
|  |  | * Added Label to gray box of PTD loops |
|  |  | * Added gray box of PTD~SU QTY loop and the MEA07 |
|  |  | * Added code ZY in PTD04 for added or subtracted consumption |
|  |  | * Added REF~SR for Power Region |
|  |  | * Added code EX for EPS daily consumption for ERCOT polled services |
|  |  | * Added REF~TN segment for Transaction ID on MVI, MVO, Switch, Drop to POLR |
| August 3, 2001  Version 1.4 |  | The following changes were made: |
|  |  | * Added a new example to illustrate the proration of outdoor lighting. Ref. 2001-138 |
|  |  | * 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 to PTD~PP to clarify the handling of Additive/Subtractive metering and Missing or abundance of consumption. Ref.2001-143 |
|  |  | * ADD Gray Box language in PTD~SU. Ref.2001-144 |
|  |  | * Change Gray Box language in REF~MT in PTD~SU. Ref.2001-144 |
|  |  | * 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, PTD~PP, and PTD~IA loops. Ref. 2001-147 |
|  |  | * Add the MEA~MU segment in the PTD~BO Loop. Ref. 2001-146 |
|  |  | * Modify gray box notes in PTD~BO. Ref. 2001-146 |
|  |  | * Modify gray box notes in MEA03 in the PTD~BO loop. Ref. 2001-146 |
|  |  | * Add new PTD~IA loop. Placement of the PTD~IA is to be after the PTD~BD and before the PTD~BO. Ref. 2001-145 |
|  |  | * 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 |
|  |  | * Mark the Code “04” as “NOT USED” in the BPT01. Ref. 2001-096 |
|  |  | * Add language to the beginning of the Implementation guide that clarifies the procedures for usage begin and end dates. Ref. 2001-097 |
|  |  | * Add language to the beginning of the Implementation guide that clarifies the procedures for Cancellation and Restatement. Ref. 2001-098 |
|  |  | * 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~SU, PTD~PL, PTD~BD, PTD~BO, PTD~PP, PTD~PM. Ref. 2001-094 |
|  |  | * Modify the ‘This transaction set…’ definition. Ref. 2001-094 |
|  |  | * Edit gray box in the PTD~PP for the QTY. Ref. 2001-094 |
|  |  | * Edit gray box in each QTY in the PTD~SU. Ref. 2001-094 |
|  |  | * Edit gray box in the MEA in the PTD~SU. Ref. 2001-094 |
|  |  | * Edit naming convention: Where “PTD = SU (Non-Interval Usage Summary)” is used, change to “PTD = SU (Non-Interval Usage or Unmetered Summary)” in all segments in the PTD~SU loop. 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 each QTY~92 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 |
|  |  | * Edit gray box in the PTD05 In the PTD~PM. Ref 2001-094 |
|  |  | * Edit gray box for the REF~TN. Ref 2001-094 |
|  |  | * Edit gray box for the REF02 in the REF~TN. Ref 2001-094 |
|  |  | * Edit gray box in the PP loop under REF~JH (meter role) code “S”. 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 gray box in the MEA 05 of the PTD~BO & PTD~PL loops. Ref. 2001-110 |
|  |  | * Added REDLINE from Change Controls: * 2001-181 * 2001-182 * 2001-186 * 2001-200 10/24/01 * 2001-212 11/14/01 * 2001-213 11/14/01 * 2001-216 12/05/01 * 2001-222 12/05/01 * 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 |
|  |  | * Added DTM~649 for MC-TDSP to announce the closing of the bill window for the CR. Ref: 2002-263 |
|  |  | * Added comments to the How To Use section to indicate the 867\_04 can only be submitted once. The read and consumption can be adjusted in the first 867\_03 but the start and end dates must be the same. Ref: 2002-243 |
|  |  | * Removed code “9” DUNS+4 from N103 for ERCOT. Ref: 2002-267 |
|  |  | Applied Change Control 320 |
|  |  | Applied Change Control 321 |
| 8/5/02 |  | * Provided Clarifying language to the QTY segment in the PTD~PL loop Ref: 2002-332 |
| 8/5/02 |  | * Change Control 2002-353 – Corrected Implementation guide “Summary of Changes” by cleaning up previously missed or inaccurate additions to Summary of Changes: |
|  |  | * Change Control 2002-320 – Updated the MEA (Measurements) section on the BO Loop to indicate the K1, K2, and K4 should not be used. |
|  |  | * Change Control 2002-321 – Updated the descriptions in the MEA05 gray box to match the MEA04. |
|  |  | * Change Control 2002-323 –Eliminated inconsistencies between the QTY and MEA segments in the PL (Non-Interval Detail) Loop. |
|  |  | * Change Control 2002-353 – Updated Change Control Log to add approved Version 1.5 Change Controls 2002-320 detail, 2002-321 detail, and 2002-323. This was previously missed at time of update of implementation guide and is needed to reflect the approved change controls. |
| 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. |
|  |  | * Change Control 2002-421 – Replaced Reference to POLR with AREP- REF~TN |
| 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 |  | * Change Control 2003-487 Clean up gray box for PTD05 in the PTD~PL (Non-Interval Detail) |
| 5/30/03 |  | * Change Control 2003-510 Make corrections to 867\_03 flow page |
| September 29th, 2003  Version 2.0 |  | No Changes |
| October 8th, 2004  Version 2.0A |  | Change Control 2003-538:   * Add examples to the Implementation Guide and re-number the examples. Also Remove Example 14 for IDR meters with more than one channel per unit of measure.   Change Control 2004-611:   * Change the DTM~514 Gray box example in the PTD~PM loop to remove the times from the DTM~150 and DTM~151 dates. * Update the PTD~PM, DTM~514s and DTM~194s in example #15 and #16 (examples added in CC2003-538) to contain the appropriate times.   Change Control 2004-628:   * At the July 2004 TX SET meeting in an attempt to make the Implementation Guides more current and provide clarification when and where necessary, Texas SET decided to incorporate the BPO language into the actual graybox segment of the applicable data element. This change control has removed or deleted the How to Use Section of this implementation guide and included those current and accurate statements found into the actual data element and/or segment where necessary.   Change Control 2004-634:   * The following Language should be added , following the “ transaction flow ” of each transaction. 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 2004-667:   * Add membership ID to TX SET 867\_03 Monthly Usage transaction to support Muni/Co-op business requirement to positively match all market activity for an ESI ID to an existing MCTDSP membership/account. Including this value in the monthly usage transaction from MOU/EC will enable CR to identify possible out-of synch conditions before invoicing customers   Change Control 2004-677:   * In the DTM~649 segment of the 867\_03, the IG says that this segment is required when the Bill Type is LDC, but later in the gray box it states ‘not provided on cancel transactions’. Add text to the gray box to indicate that this segment is not required on 867\_03 Cancels.   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 2006-691:   * To support the changes in the revised Pro-Forma Retail Delivery Tariff, PUCT Project 29637. * Corrected meter data must be identified with a Replacement Code * Counters shall be added to the 867\_03 to indicate: The number of estimates due to denial of access at a premise and the number of estimates due to other than denial of access at a premise.   Change Control 2007-708:   * Clarification for use of REF~5I segment on 867\_03 estimated meter reads   Change Control 2007-712:   * Gray box changes to support requiring REF~5I (Reason for Estimate) for IDR ESI IDs if the PTD\*IA Net Interval Usage Summary ‘QTY’ is equal to ‘KA’ (Quantity Estimated), otherwise this segment would not be present and Non-IDR ESI IDs if the PTD\*SU Non-Interval Usage Summary ‘QTY’ is equal to ‘KA’ (Quantity Estimated, otherwise this segment would not be present. Include in gray box the REF~5I is only “Required for IOU TDSPs”. |
| November 30, 2010  Version 3.0A |  | Change Control 2007-705:   * Correct improper use of element separator in some elements of REF~5I segment in example. * Modified in discussions on 2/5 to include MEA and QTY segments. Texas SET determined this is a guide clean-up to be done after Texas SET 3.0 and this change control will be revised to include any other segments that need to be corrected.   Change Control 2007-709:   * REF~TN needs to specify that special characters are not allowed. Clarification of the gray box   Change Control 2007-714:   * Ts and Cs Requirement 3: Modified the 810\_02 to send the BIG08~05’ Replace code on every corrected 810\_02.  The Implementation guide gray box contradicts that and needs to be modified on the BPT01.   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 2009-728:   * The 867\_03 TX SET Guide in the N1~8S segment the N106 is missing the 40 for Receiver for ERCOT Read Load transactions.   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 11, 2012  Version 4.0 |  | Change Control 2010-748:   * The purpose of this Change Control is to sync the names of the Texas SET Guide transactions, with the names of the transactions in Protocol and the Retail Market Guide.   Change Control 2010-760:   * Add a new code in the ESIID attributes to specify LED bulb types for Unmetered Service type.   Change Control 2010-761:   * Add to the existing REF02 of the REF~PRT segment the "WF" code to represent Wi-Fi (Wireless Fidelity).   Change Control 2010-790:   * Corrected the PTD~PL gray box reference to the appropriate PTD loop |
| November 2, 2020  Version 4.0A |  | Change Control 2020-806:   * Sync the Texas SET Implementation Guides with ERCOT Protocols in the way the Muni-Coop is abbreviated.   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. |
| TBD Version 5.0 |  | No changes for Texas SET 5.0 |

**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~00~200102010001~20010131~DD  BPT~00~200102010001~20010131~DD~~~F  BPT~01~200102020001~20010131~DD~~~~~2001020100001  BPT~05~200102010001~20010131~DD~~~~~2001020100001 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **BPT01** | **353** | **Transaction Set Purpose Code** | | | | **M** |  | **ID 2/2** | | |
|  | | | Code identifying purpose of transaction set | | | | | | | |
|  | | | | 00 |  | Original | | | | |
|  | | | | | | Conveys original readings for the account being reported. | | | |
|  | | | | 01 |  | Cancellation | | | | |
|  | | | | | | Readings previously reported for the account are to be ignored. This would cancel the entire period of usage for the period. | | | |
|  | | | | 05 |  | Replace | | | | |
|  | | | | | | Used when the TDSP cancels and sends a replacement transaction for corrected data. | | | |
|  | | | | EX |  | Final Loading Configuration | | | | |
|  | | | | | | Daily consumption ERCOT polled services | | | |
| **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 | | | | | | | |
|  | | | Not Used | | | | | | | |
|  | | | | C1 |  | Cost Data Summary | | | | |
|  | | | | | | Interval Meters | | | |
|  | | | | DD |  | Distributor Inventory Report | | | | |
|  | | | | | | Non-interval metered and unmetered | | | |
| **Dep** | **BPT07** | **306** | **Action Code** | | | | **O** |  | **ID 1/2** | | |
|  | | | Code indicating type of action | | | | | | | |
|  | | | Required for Final Usage Statement | | | | | | | |
|  | | | | F |  | Final | | | | |
|  | | | | | | Final meter read data being sent for this customer. The customer account is final with the TDSP or the customer switched to a new Energy Supplier. | | | |
| **Dep** | **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 | | | | | | | |
|  | | | When BPT01 = 01 (cancel) or 05 (replace), this element is required and contains the transaction identification number from BPT02 of the transaction that is being cancelled or replaced.  Condition: Required if a cancellation or replacement. | | | | | | | |

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

**Position:** 050

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 10

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

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

**2** If DTM04 is present, then DTM03 is required.

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

**Semantic Notes:**

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Muni Coop Use Only  Required for Muni-Coop Consolidated Bill Ready Original Transactions (BPT01 = '00')  Not used for Muni-Coop Dual Billing |
|  |  | Required for Bill Ready Consolidated Billing (allowed only in Muni-Coop territories) where the meter reading party (MOU/EC TDSP) sends an 867 to the non-billing party (CR), who calculates their own portion of the bill and sends the 810 to the billing party (MOU/EC TDSP). Must be expressed in Central Prevailing Time.  Not used on a cancel transaction.  If a file is received by the MOU/EC TDSP after the date and time specified in the DTM~649, and the MOU/EC TDSP cannot process it for display on the current month's bill, the MOU/EC TDSP must notify the CR via the 824 (Application Advice) whether the MOU/EC TDSP will reject the file and require the CR to resend next month or whether the MOU/EC TDSP will hold the billing file for display on next month's bill without requiring the CR to resend. |
|  |  | DTM~649~20020131~1800 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | | | | **M** |  | **ID 3/3** | | |
|  | | | Code specifying type of date or time, or both date and time | | | | | | | |
|  | | | | 649 |  | Document Due | | | | |
|  | | | | | | The date that the non-billing party must provide the 810 CR Calculated Billing Charges transaction back to the billing party. | | | |
| **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 (00-23) and M = Minutes (00-59) in prevailing time at the meter controls. 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 (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.  The REF~Q5 will be populated with the Resource ID assigned by ERCOT instead of the ESI-ID for TDSP generation meters 10 MW or less. |
|  |  | 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: REF Reference Identification (Estimates)**

**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 for IOU TDSPs  Not used on Final Usage (BPT07 = 'F').  Required when:  'PTD\*IA (Net Interval Usage Summary) QTY=KA' (Quantity is Estimated), otherwise not used.  'PTD\*SU (Non-Interval Usage Summary) QTY=KA' (Quantity is Estimated), otherwise not used. |
|  |  | The REF~5I will be populated with the reason the meter was estimated  REF~5I~D2~~JH^Y^ESN^1^QO^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 | | | | | | | | |
|  | | | | 5I |  | Offender Tracking | | | | | |
|  | | | | | | Estimation Reason  This reason code applies only to monthly usage. | | | |
| **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 | | | | | | | | |
|  | | | | D1 |  | Bad/Vicious Dog | | | | | |
|  | | | | D2 |  | Gate/Door Locked No other access | | | | | |
|  | | | | D3 |  | Business Closed | | | | | |
|  | | | | D4 |  | Refused Access | | | | | |
|  | | | | D5 |  | Meter Obstructed | | | | | |
|  | | | | D6 |  | Meter Locked Inside | | | | | |
|  | | | | D7 |  | Bees/Wasps/Insects near and/or at meter | | | | | |
|  | | | | D8 |  | Key/Access Code does not work | | | | | |
|  | | | | D9 |  | High/Weak/Bad Fence - cannot climb | | | | | |
|  | | | | D10 |  | Miscellaneous reason | | | | | | |
|  | | | | | | Used to communicate a specific denial of access reason for estimating when reason D1-D9 does not qualify. REF03 (Description) is required when using this code | | | | |
|  | | | | O1 |  | TDSP Reason | | | | | |
|  | | | | O2 |  | Mass Transition | | | | | |
|  | | | | O3 |  | Force Majeure | | | | | |
|  | | | | O4 |  | Tampering | | | | | |
|  | | | | O5 |  | Weather | | | | | |
|  | | | | | | Used by the TDSP to communicate reason for estimation | | | |
| **Dep** | **REF03** | **352** | **Description** | | | | **X** |  | **AN 1/80** | | | | |
|  | | | A free-form description to clarify the related data elements and their content | | | | | | | | |
|  | | | Required when REF02 = D10 - Used to communicate a specific denial of access reason for estimating when reason D1-D9 does not qualify, otherwise not used. | | | | | | | | |
| **Must Use** | **REF04** | **C040** | **Reference Identifier** | | | | **O** |  |  | | | | |
|  | | | To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier | | | | | | | | |
| **Must Use** | **C04001** | **128** | **Reference Identification Qualifier** | | | | **M** |  | **ID 2/3** | | | | |
|  | | | Code qualifying the Reference Identification | | | | | | | | |
|  | | | | JH |  | Tag | | | | | |
|  | | | | | | Door Hanger Flag | | | |
| **Must Use** | **C04002** | **127** | **Reference Identification** | | | | **M** |  | **AN 1/30** | | | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | | |
|  | | | Yes/No indicator for whether or not the TDSP left a door hanger at the premise | | | | | | | | |
|  | | | | N |  | No | | | | | |
|  | | | | Y |  | Yes | | | | | |
| **Must Use** | **C04003** | **128** | **Reference Identification Qualifier** | | | | **X** |  | **ID 2/3** | | | | |
|  | | | Code qualifying the Reference Identification | | | | | | | | |
|  | | | | ESN |  | Estimate Sequence Number | | | | | |
|  | | | | | | Indicates the TDSP has estimated the meter reading due to Denial of Access by the customer. | | | |
| **Must Use** | **C04004** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/30** | | | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | | |
|  | | | This counter increases each time a meter-read is estimated by the TDSP due to Denial of Access reasons. The counter shall reset to zero when an actual meter-read is obtained. | | | | | | | | |
| **Must Use** | **C04005** | **128** | **Reference Identification Qualifier** | | | | **X** |  | **ID 2/3** | | | | |
|  | | | Code qualifying the Reference Identification | | | | | | | | |
|  | | | | QO |  | Service Estimate Number | | | | | |
|  | | | | | | Code that identifies special handling requirements | | | | | |
|  | | | | | | Indicates that the TDSP has estimated the meter reading for reasons other than Denial of Access, Mass Transition, Tampering, Weather, or Force Majeure. | | | |
| **Must Use** | **C04006** | **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 counter for the number of times the premise has been estimated by TDSP for reasons other than Denial of Access issues. | | | | | | | | |
|  | | | This counter increases each time a meter-read is estimated for reasons other than denial of access, Mass Transition, Tampering, Weather, or Force Majeure. The counter shall reset to zero when an actual meter-read is obtained | | | | | | | | |

**Segment: REF Reference Identification (Membership 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 in MOU/EC market. Otherwise, not used. |
|  |  | REF~1W~~1234567890 |

**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 | | | | | | | |
|  | | | | 1W |  | Membership Identification Number | | | | |
|  | | | | | | Membership Number or ID | | | |
| **Must Use** | **REF03** | **352** | **Description** | | | | **X** |  | **AN 1/80** | | |
|  | | | A free-form description to clarify the related data elements and their content | | | | | | | |
|  | | | Membership ID, account number or other value as assigned by the MOU/EC that positively identifies the end-use customer to the MOU/EC TDSP. Required if ESI ID is located in MOU/EC service territory. | | | | | | | |

**Segment: REF Reference Identification (Power Region)**

**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 |
|  |  | REF~SR~ERCOT Electric Reliability Council of Texas  REF~SR~SERC Southeast Electric Reliability Council  REF~SR~SPP Southwest Power Pool  REF~SR~WSCC Western States Coordinating Council |

**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 | | | | | | | |
|  | | | | SR |  | Sales Responsibility | | | | |
|  | | | | | | Power Region | | | |
| **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 | | | | | | | |
|  | | | Power Region of the ESI ID | | | | | | | |
|  | | | ERCOT Electric Reliability Council of Texas  SERC Southeast Electric Reliability Council  SPP Southwest Power Pool  WSCC Western States Coordinating Council | | | | | | | |

**Segment: REF Reference Identification (Original Transaction 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:** |  | The source of this value will be the BGN06 of the 814\_03 or 814\_24 sent to the TDSP from ERCOT. The CRs can use this value to tie back to their original Switch, Move Out, Switch or Mass Transition Drop.  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.  Required on Final Usage, otherwise Not Used.  Only one REF~TN will be sent per transaction. |
|  |  | REF~TN~1234567820010620 |

**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 | | | | | | |
|  | | | | TN |  | Transaction Reference 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 | | | | | | |
|  | | | The number that is tracked in the BGN06 through the lifecycle of the respective process.  If, from the TDSP's perspective, the initiating transaction is a result of an 814\_03 Move-In (i.e., a move-in on an energized account), this REF02 will be populated with the BGN06 of the initiating 814\_03.  If from the TDSP's perspective, the initiating transaction is an 814\_24 Move-Out, this REF02 will be populated with the BGN06 of the initiating 814\_24.  If a TDSP receives an 814\_24 Move-Out and then subsequently receives an 814\_03 Move-in that forces an earlier move-out date (i.e., a move-in on an energized account), this REF02 will be populated with the BGN06 of the subsequently received 814\_03. No 867\_03 will be sent in response to the 814\_24 as it will be assumed that this Move Out is no longer required.  If a TDSP receives an 814\_03 Move-In, forcing a move-out, and then subsequently receives an 814\_24 Move-out with a requested date earlier than the forced move-out date, then the 867\_03 will be sent in response to the 814\_24 Move-Out with the REF02 referring to the BGN06 of the 814\_24. The 814\_03 Move-In becomes a move-in on a de-energized account, a scenario not requiring an 867\_03. | | | | | | |

**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~~40 (ERCOT to TDSP)  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 TDSP: Required  ERCOT to CR: Not Used | | | | | | | |
|  | | | | 40 |  | Receiver | | | | |
|  | | | | 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 a CR is assigned to the ESI ID  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 Usage 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 = SU (Non-Interval Usage or Unmetered Summary)  One PTD loop is required for each unit of measure for non-interval meters or unmetered services. All consumption and demand reported in each PTD~SU loop must have the unit of measure in common. Consumption is summed to the ESI-ID level by unit of measure.  This loop is used to convey the total usage for all unmetered devices at a summary level for an ESI-ID.  This loop is required for ERCOT TDSPs and Non-ERCOT TDSPs to provide net usage for non-interval and unmetered usage because ERCOT uses the netted consumption and coincidental peak reported in these loops. One PTD~SU loop is provided (if measured) for coincidental peak demand.  For Additive/Subtractive Metering and Missing or Abundance of Consumption:  When the PTD~PL element PTD06 equals a valid value, ERCOT and Non-ERCOT TDSPs report the net usage is in this Loop. |
|  |  | PTD~SU |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

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

**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 = SU (Non-Interval Usage or Unmetered Summary)  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 = SU (Non-Interval Usage or Unmetered Summary)  Only one QTY loop is used when reporting time of use. Each individual time of use (i.e. On Peak kWh, Off Peak kWh, Mid Peak kWh, etc.) will be reported in separate MEAs under the QTY.  The QTY02 will equal the totalizer. If the totalizer is not measured, the QTY02 will equal the sum of the usage provided in the MEA03s.  Note: The billable quantity is the total measured consumption for the billable period including all billable adjustments applicable, e.g., transformer loss factor and the meter multiplier. For unmetered services the QTY02 value is the billable quantity, as well. There is no PTD06 = "AI","A0","CD","DC","DM" or "MD" Adjusted Consumption in this loop because it has already been netted out. Billable quantity in the 867\_03 may not match the invoiced quantity in the 810\_02 because of TDSP tariff adjustments to the 810\_02 data. |
|  |  | 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 if the usage from one or more meters was estimated. | | | |
|  | | | | QD |  | Quantity Delivered | | | | |
|  | | | | | | Quantity is actual for all meters | | | |
| **Must Use** | **QTY02** | **380** | **Quantity** | | | | **X** |  | **R 1/15** | | |
|  | | | Numeric value of quantity | | | | | | | |

**Segment: MEA Measurements (Consumption)**

**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 = SU (Non-Interval Usage or Unmetered Summary)  Required:  MEA with an MEA07 = "51" (total) is required. The QTY02 equals the value in the MEA03 when the MEA07 equals "51" (total). |
|  |  | MEA~~PRQ~772~~~~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: DTM Date/Time Reference (Service Period Start Date)**

**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 = SU (Non-Interval Usage or Unmetered Summary)  The DTM\*150 (Service Period Begin Date) for Month 2 must equal the DTM\*151 (Service Period End Date) for Month 1, otherwise a gap in data exists. See below example:  Service Period Begin Date Service Period End Date  Month 1 DTM~150~20010501 DTM~151~20010601  Month 2 DTM~150~20010601 DTM~151~20010701  Required |
|  |  | DTM~150~20010630 |

**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 Date)**

**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 = SU (Non-Interval Usage or Unmetered Summary)  The DTM\*150 (Service Period Begin Date) for Month 2 must equal the DTM\*151 (Service Period End Date) for Month 1, otherwise a gap in data exists. See below example:  Service Period Begin Date Service Period End Date  Month 1 DTM~150~20010501 DTM~151~20010601  Month 2 DTM~150~20010601 DTM~151~20010701  Required |
|  |  | DTM~151~20010730 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | | | | **M** |  | **ID 3/3** | |
|  | | | Code specifying type of date or time, or both date and time | | | | | | |
|  | | | | 151 |  | Service Period End | | | |
| **Must Use** | **DTM02** | **373** | **Date** | | | | **X** |  | **DT 8/8** | |
|  | | | Date expressed as CCYYMMDD | | | | | | |

**Segment: PTD Product Transfer and Resale Detail (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) |
|  |  | There will be one PTD~PL loop for each meter for each unit of measure. There will also be separate PTD~PL loops to reflect missing or abundance of consumption.  The PTD loop for non interval meters requires one summary level loop (PTD~SU) and at least one detail level loop (PTD~PL).  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/Additive/Subtractive 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. . The receiver must add or subtract this consumption from the meter number provided in the PTD05. Net usage for the ESI ID is provided in the PTD~SU Loop. |
|  |  | 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". | | | | | | | |
|  | **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. The receiver must add this consumption to the meter number provided in the PTD05. Net usage for the ESI ID is provided in the PTD~SU Loop. | | | | | | | |
|  | | | | 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 additive meters. When the PTD06 equals "AI", the REF~JH equals "A". Net usage for the ESI ID is provided in the PTD~SU Loop. | | | |
|  | | | | 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 meters. . When the PTD06 equals "AO", the REF~JH equals "S". Net usage for the ESI ID is provided in the PTD~SU Loop | | | |
|  | | | | 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. 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 exist 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". Net usage for the ESI ID is provided in the PTD~SU Loop. | | | |
|  | | | | 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 subtract this consumption to the meter number provided in the PTD05. When the PTD06 equals "DM", the REF~JH equals "S". Net usage for the ESI ID is provided in the PTD~SU Loop. | | | |
|  | | | | 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". Net usage for the ESI ID is provided in the PTD~SU Loop. | | | |

**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 meter role 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  One use is to indicate to ERCOT that the 867\_03 is reporting generation volume for TDSP generation meters 10 MW or less. | | | |

**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~K3015 |

**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.  Billable quantity in the 867\_03 may not match the invoiced quantity in the 810\_02 because of TDSP tariff adjustments to the 810\_02 data.  MEA with an MEA07 = "51" (total) is required.  "KA" - Estimate must be used when reporting missing or abundance of consumption. |
|  |  | 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 | | | | | | | |
|  | | | Note: There may be instances where the Quantity Qualifier could be AO or QD while the MEA01 is not AA (Meter reading-beginning actual/ending actual). | | | | | | | |
|  | | | | 92 |  | Allotted Usage Quantity | | | | |
|  | | | | | | Estimated for reasons beyond the control of MDMA  ---Not used at this time--- | | | |
|  | | | | AO |  | Verified Receipts | | | | |
|  | | | | | | Verified as actual value | | | |
|  | | | | KA |  | Estimated | | | | |
|  | | | | | | Quantity is estimated  Required when reporting missing or abundance of consumption. | | | |
|  | | | | 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) |
|  |  | Conditional - Required unless reporting Additive/Subtractive Metering Usage or Adjusted (missing or abundance) Consumption. (if the PTD06 equals "AI" , "AO","CD","DC","DM", or "MD")  MEA with an MEA07 = "51" (total) is required unless reporting Additive/Subtractive Metering Usage (the PTD06 equals "AI" or "AO","CD", "DC","DM", or "MD"). |
|  |  | MEA~AA~PRQ~1000~KH~1000~1100~51 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **MEA01** | **737** | **Measurement Reference ID Code** | | | | **O** |  | **ID 2/2** | | |
|  | | | Code identifying the broad category to which a measurement applies | | | | | | | |
|  | | | | AA |  | Meter reading-beginning actual/ending actual | | | | |
|  | | | | AE |  | Meter reading-beginning actual/ending estimated | | | | |
|  | | | | EA |  | Meter reading-beginning estimated/ending actual | | | | |
|  | | | | EE |  | Meter reading-beginning estimated/ending estimated | | | | |
| **Must Use** | **MEA02** | **738** | **Measurement Qualifier** | | | | **O** |  | **ID 1/3** | | |
|  | | | Code identifying a specific product or process characteristic to which a measurement applies | | | | | | | |
|  | | | | PRQ |  | Product Reportable Quantity | | | | |
|  | | | | | | Consumption | | | |
| **Must Use** | **MEA03** | **739** | **Measurement Value** | | | | **X** |  | **R 1/20** | | |
|  | | | The value of the measurement | | | | | | | |
|  | | | Total consumption after meter multiplier and transformer loss factor are applied. | | | | | | | |
| **Must Use** | **MEA04** | **C001** | **Composite Unit of Measure** | | | | **X** |  |  | | |
|  | | | To identify a composite unit of measure (See Figures Appendix for examples of use) | | | | | | | |
|  | | | Please note that 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 | | | | | | | |
|  | | | | K1 |  | Kilowatt Demand | | | | |
|  | | | | | | kW | | | |
|  | | | | K2 |  | Kilovolt Amperes Reactive Demand | | | | |
|  | | | | | | kVAR | | | |
|  | | | | K3 |  | Kilovolt Amperes Reactive Hour | | | | |
|  | | | | | | kVARH | | | |
|  | | | | K4 |  | Kilovolt Amperes | | | | |
|  | | | | | | kVA | | | |
|  | | | | KH |  | Kilowatt Hour | | | | |
|  | | | | | | kWh | | | |
| **Dep** | **MEA05** | **740** | **Range Minimum** | | | | **X** |  | **R 1/20** | | |
|  | | | The value specifying the minimum of the measurement range | | | | | | | |
|  | | | The Beginning read is required when C00101, element 355 Unit of Measure is equal to  "K3" - kVARH (Kilovolt Amperes Reactive Hour),  "K4" - kVA (Kilovolt Amperes)  "KH" - kWh (Kilowatt Hour).  The Beginning read is not used for  "K1" - kW (Kilowatt Demand)  "K2" - kVAR (Kilovolt Amperes Reactive Demand). | | | | | | | |
| **Must Use** | **MEA06** | **741** | **Range Maximum** | | | | **X** |  | **R 1/20** | | |
|  | | | The value specifying the maximum of the measurement range | | | | | | | |
|  | | | Ending reading when C00101, element 355 Unit of Measure is equal to  "K3" - kVARH (Kilovolt Amperes Reactive Hour)  "K4" - kVA (Kilovolt Amperes)  "KH" - kWh (Kilowatt Hour)  Single reading when  "K1" - kW (Kilowatt Demand)  "K2" - kVAR (Kilovolt Amperes Reactive Demand) | | | | | | | |
| **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)  The PTD loop for unmetered services requires one summary level loop (PTD~SU) and at least one detail level loop (PTD~BD).  One PTD loop is required per device type per ESI-ID. Total consumption for all unmetered services is at the unmetered device detail level. One loop is required for each unmetered device type per each unique wattage and/or lumen reported. Even though some consumption may be estimated, the consumption is reported as actual quantity delivered for unmetered services. The detail is required for Unmetered Services. |
|  |  | One PTD loop is required for each unmetered service type. |
|  |  | 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  The DTM\*150 (Service Period Begin Date) for Month 2 must equal the DTM\*151 (Service Period End Date) for Month 1, otherwise a gap in data exists. See below example:  Service Period Begin Date Service Period End Date  Month 1 DTM~150~20010501 DTM~151~20010601  Month 2 DTM~150~20010601 DTM~151~20010701 |
|  |  | 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  The DTM\*150 (Service Period Begin Date) for Month 2 must equal the DTM\*151 (Service Period End Date) for Month 1, otherwise a gap in data exists. See below example:  Service Period Begin Date Service Period End Date  Month 1 DTM~150~20010501 DTM~151~20010601  Month 2 DTM~150~20010601 DTM~151~20010701 |
|  |  | 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 |  | Levys | | | | |
|  | | | | 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 |  | Tranceiver | | | | |
|  | | | | 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. Billable quantity in the 867\_03 may not match the invoiced quantity in the 810\_02 because of TDSP tariff adjustments to the 810\_02 data. |
|  |  | 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 (Net Interval Usage 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 = IA (Net Interval Usage Summary) |
|  |  | One PTD loop is required for each unit of measure at the ESI ID. This loop is required to provide summarized net interval usage at the ESI ID level. This net usage loop applies only to interval meters. The PTD~IA Loop provides the net of the Interval summary (PTD~BO) loops and also provides a control total for the total of the intervals reported in the Interval Usage Summary Across Meters (PTD~PP) loop.  For Additive/Subtractive Metering Only:  ERCOT and NON-ERCOT TDSPs provide the PTD~IA for the monthly summarized net interval usage for the Master Meter when the PTD~BO element PTD06 equals "AI" or "AO".  Missing or Abundance of Consumption:  Not reported for Interval Meters. |
|  |  | PTD~IA |

**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 | | | | | | | |
|  | | | | IA |  | Inventory adjustment | | | | |
|  | | | | | | Interval Usage Summary | | | |

**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 = IA (Net Interval Usage Summary) |
|  |  | 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  K3 Kilovolt Amperes Reactive Hour (kVARH)  KH Kilowatt Hour (kWh)  Metering Interval Reported for Billing Purposes  nnn Number of minutes from 001 to 999  For Example:    KH060 Kilowatt Hours for hourly interval meter  K3015 Kilovolt Amperes Reactive Hours for 15 minute interval meter | | | | | | | |

**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 = IA (Net Interval Usage Summary) |
|  |  | Note: The billable 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 consumption in this loop has been netted. Billable quantity in the 867\_03 may not match the invoiced quantity in the 810\_02 because of TDSP tariff adjustments to the 810\_02 data.  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 if the usage from one or more meters was estimated. | | | |
|  | | | | QD |  | Quantity Delivered | | | | |
|  | | | | | | Quantity is actual for all meters | | | |
| **Must Use** | **QTY02** | **380** | **Quantity** | | | | **X** |  | **R 1/15** | | |
|  | | | Numeric value of quantity | | | | | | | |

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

**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 = IA (Net Interval Usage Summary) |
|  |  | Required |
|  |  | DTM~150~20010630 |

**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 Date)**

**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 = IA (Net Interval Usage Summary) |
|  |  | Required |
|  |  | DTM~151~20010730 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | | | | **M** |  | **ID 3/3** | |
|  | | | Code specifying type of date or time, or both date and time | | | | | | |
|  | | | | 151 |  | Service Period End | | | |
| **Must Use** | **DTM02** | **373** | **Date** | | | | **X** |  | **DT 8/8** | |
|  | | | Date expressed as CCYYMMDD | | | | | | |

**Segment: PTD Product Transfer and Resale Detail (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) |
|  |  | At least one summarized consumption loop for ERCOT settlement (PTD~PP), at least one summarized loop per meter per measurement type (PTD~BO), and at least one detail level loop by interval per meter measurement type (PTD~PM) are required for interval meters.  One PTD~BO loop is required for each meter for each unit of measure. The PTD~BO reports monthly interval consumption at each meter. There will be separate PTD~BO loops to reflect summed adjusted consumption.  Individual intervals are not reported in the PTD~BO loop. The PTD~BO loop will never report KW or KVAR.  For Additive/Subtractive Metering Only:  This loop is also used 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 and 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". ERCOT and NON-ERCOT TDSPs provide for the Master/Subtractive or Master/Additive net intervals in the PTD~PP when the PTD~BO element PTD06 equals "AI" or "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. |
|  |  | 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 | | | | |
|  | | | | | | Consumption across intervals and across the same unit of measure summarized at the meter level | | | |
| **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 | | | | | | | |
|  | | | This field is only used when reporting the type of Master/Additive or Master/Subtractive usage. This indicates to the receiver that they will find the netted interval usage for the Master Meter the PTD~PP. | | | | | | | |
|  | | | | 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 additive meters. 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 meters. . When the PTD06 equals "AO", the REF~JH equals "S". | | | |

**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 contributed to the summarized total (do nothing) | | | |
|  | | | | 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)  NOT USED FOR INTERVAL METERS  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: The 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 master/additive/ subtractive meter usage.  Billable quantity in the 867-03 may not match the invoiced quantity in the 810\_02 because of TDSP tariff adjustments to the 810-02 data.  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 (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 = BO (Interval Summary) |
|  |  | Conditional - Required unless reporting Additive/Subtractive Metering Usage. (if the PTD06 equals "AI" or "AO").  MEA with an MEA07 = "51" (total) is required unless reporting Additive/Subtractive Metering Usage (the PTD06 equals "AI" or "AO"). |
|  |  | MEA~AF~~~KH~9500~10231~51 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **MEA01** | **737** | **Measurement Reference ID Code** | | | | **O** |  | **ID 2/2** | | |
|  | | | Code identifying the broad category to which a measurement applies | | | | | | | |
|  | | | | AF |  | Actual Total | | | | |
| **Must Use** | **MEA04** | **C001** | **Composite Unit of Measure** | | | | **X** |  |  | | |
|  | | | To identify a composite unit of measure (See Figures Appendix for examples of use) | | | | | | | |
|  | | | This is a composite data element, please 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 | | | | | | | |
|  | | | | K3 |  | Kilovolt Amperes Reactive Hour | | | | |
|  | | | | | | kVARH | | | |
|  | | | | KH |  | Kilowatt Hour | | | | |
|  | | | | | | kWh | | | |
| **Dep** | **MEA05** | **740** | **Range Minimum** | | | | **X** |  | **R 1/20** | | |
|  | | | The value specifying the minimum of the measurement range | | | | | | | |
|  | | | The Beginning Read. | | | | | | | |
|  | | | Required when C00101 equals "KH" - kWh (Kilowatt Hour). | | | | | | | |
| **Must Use** | **MEA06** | **741** | **Range Maximum** | | | | **X** |  | **R 1/20** | | |
|  | | | The value specifying the maximum of the measurement range | | | | | | | |
|  | | | Ending Reading. | | | | | | | |
| **Must Use** | **MEA07** | **935** | **Measurement Significance Code** | | | | **O** |  | **ID 2/2** | | |
|  | | | Code used to benchmark, qualify or further define a measurement value | | | | | | | |
|  | | | | 51 |  | Total | | | | |
|  | | | | | | Totalizer/Total/Max (Demand) | | | |

**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 (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 = BO (Interval Summary) |
|  |  | Required for all IDR Meters when meter readings are reported. Not provided for additive/subtractive meters when they are on a different ESI ID(s) than the Master Meter because meter readings are not reported. |
|  |  | MEA~~MU~20000000.12345 |

**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 = Consumption reported in this PTD~BO Loop (within VEE tolerances). | | | |
| **Must Use** | **MEA03** | **739** | **Measurement Value** | | | | **X** |  | **R 1/20** | | |
|  | | | The value of the measurement | | | | | | | |
|  | | | Meter Multiplier  Meter Multipliers for IDR Meters can be quite large. Format allows for eight digits to the left of the decimal and five digits to the right of the decimal, e.g., 9999999.99999. | | | | | | | |

**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 Usage Summary Across Meters)**

**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 = PP (Interval Usage Summary Across Meters)  At least one summarized consumption loop for ERCOT settlement (PTD~PP), at least one summarized loop per meter per measurement type (PTD~BO), and at least one detail level loop by interval per meter measurement type (PTD~PM) are required for interval meters.  This PTD Loop is used to provide usage data, for interval meters, summarized across meters for each interval (kWh and/or kVArh only). There will be one PTD loop for each unit of measure. The PTD~PP loop provides control totals for the sum of all intervals in the PTD~PM by unit of measure by channel.  For example, if there are three meters measuring kWh, the three kWh values will be added together and one quantity will be provided for each interval.  ERCOT TDSPs must report 15-minute intervals in the PTD~PP. Non-ERCOT TDSPs are not bound by this requirement and may report in other interval increments.  Only one PTD~PP loop is reported at the interval level for TDSP generation meters 10 MW or less.  For Additive and Subtractive Metering Only:  Non-ERCOT TDSPs must only transmit this loop to provide netted interval usage for Master Meters. ERCOT TDSPs always transmit this loop with netted interval usage regardless of whether the meter is a Master Meter. In order to provide an easy method for flagging the necessity to pick up netted intervals in the PTD~PP loop, an indicator is sent in the PTD~BO. If the PTD06 in the PTD~BO is equal to "AI" or "AO" the receiver knows that netted interval usage is being provided for Master/Additive/Subtractive metering in the PTD~PP.  Missing or Abundance of Consumption:  Not reported for Interval Meters.  ERCOT uses this loop for settlement purposes. ERCOT TDSPs provide the value of "ERCOT" in the Power Region in the REF~SR in the Header. ERCOT uses the Power Region designation to determine if the data in the PTD~PP is intended to be loaded into their system for settlement. Non-ERCOT TDSPs must choose the appropriate Power Region (not "ERCOT") so that settlement is not affected.  This loop is also used to report consumption to the CR and TDSP by ERCOT for ERCOT Polled Services (EPS). Only one PTD~PP loop is reported at the interval level across meters for generation meters (auxiliary net) for kWh. ERCOT systems will read multiple meters, perform netting, splitting, adjust for actual transmission losses and populate ESI-ID consumption data to be used in settlement. Market Participants have no other sources for this data other than ERCOT. ERCOT will generate a daily 867\_03 each time the aggregation process takes place that is sent to the CR and TDSP. |
|  |  | This loop is always required for ERCOT TDSPs.  Non-ERCOT TDPS will send this loop only when reporting Master Meter netted interval usage. |
|  |  | PTD~PP |

**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 | | | | | | | |
|  | | | | PP |  | Pool Level Movement and/or Sale | | | | |
|  | | | | | | Interval Level Usage Summary | | | |

**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 = PP (Interval Usage Summary Across Meters)  Required |
|  |  | DTM~150~20010401~0000 |

**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 | | | | | | |
| **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: 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 = PP (Interval Usage Summary Across Meters)  Required |
|  |  | DTM~151~20010430~2359 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | | | | **M** |  | **ID 3/3** | |
|  | | | Code specifying type of date or time, or both date and time | | | | | | |
|  | | | | 151 |  | Service Period End | | | |
| **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 (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 = PP (Interval Usage Summary Across Meters)  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 contributed to the summarized total (do nothing) | | | |
|  | | | | S |  | Subtractive | | | | |
|  | | | | | | This indicates to ERCOT that the reported consumption is for a Generation Meter or UFE Zoned Meters. | | | |

**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 = PP (Interval Usage Summary Across Meters)  This segment is sent primarily 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  K3 Kilovolt Amperes Reactive Hour (kVARH)  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  KH015 Kilowatt Hours 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 = PP (Interval Usage Summary Across Meters)  One QTY loop is required for each period reported.  The QTY02 will equal usage measured or estimated for each interval.  Note: the billable quantity is the total measured consumption for the billable period including all billable adjustments applicable, e.g., transformer loss factor and the meter multiplier. There is no PTD06 = "AI","A0","CD","DC","DM" or "MD" adjusted consumption in this loop because it has already been netted out. Billable quantity in the 867\_03 may not match the invoiced quantity in the 810\_02 because of TDSP tariff adjustments to the 810\_02 data.  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  "Note: The billable quantity is the total measured consumption for the billable period including all billable adjustments applicable, e.g., transformer loss factor and the meter multiplier. There is no PTD04=ZY Adjusted Consumption in this loop because it has already been netted out. Billable quantity in the 867\_03 may not match the invoiced quantity in the 810\_02 because of TDSP tariff adjustments to the 810\_02 data."  The QTY02 will equal usage measured or estimated for each interval. |

**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 if the usage from one or more meters was estimated. | | | |
|  | | | | QD |  | Quantity Delivered | | | | |
|  | | | | | | Quantity is actual for all meters | | | |
| **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 = PP (Interval Usage Summary Across Meters)  Required |
|  |  | DTM~194~20010630~2359 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | | | | **M** |  | **ID 3/3** | | |
|  | | | Code specifying type of date or time, or both date and time | | | | | | | |
|  | | | | 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: 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) |
|  |  | At least one summarized consumption loop for ERCOT settlement (PTD~PP), at least one summarized loop per meter per measurement type (PTD~BO), and at least one detail level loop by interval per meter measurement type (PTD~PM) are required for interval meters.  One PTD~PM loop is required for each meter channel for each unit of measure. Demand is not reported in the PTD~PM loop. This is the lowest level of detail.  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 recorded and are not adjusted for additive or subtractive meters that are on different ESI IDs behind the Master Meter. The PTD~PP loop provides the netted interval usage for the Master Meter.  Missing or Abundance of Consumption:  Not reported for Interval Meters. |
|  |  | 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)  NOT USED  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) |
|  |  | 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 and/or subtractive usage.  Billable quantity in the 867 may not match the invoiced quantity in the 810\_02 because of TDSP tariff adjustments to the 867 data.  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 | | | |