**Texas**

**Standard**

**Electronic**

**Transaction**

**814\_20:**

##### ESI ID Maintenance Request

Electronic Data Interchange

ANSI ASC X12 Ver/Rel 004010

Transaction Set 814

**Texas 814\_20:**

ESI ID Maintenance Request

This transaction set...

... from the TDSP to ERCOT is used to communicate the creation of a new ESI ID, changes to information associated with an existing ESI ID, or retirement of an existing ESI ID.

... from ERCOT to the current CR, is used to communicate the TDSP’s changes to an existing ESI ID.

... from ERCOT to the new CR, is used to communicate the TDSP’s changes to an existing ESI ID.

Document Flow:

* TDSP to ERCOT
* ERCOT to Current CR
* ERCOT to New CR

Note: When the Current CR and New CR are the same ERCOT will only send one 814\_20 to that CR.

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

|  |  |  |
| --- | --- | --- |
|  |  | Summary of Changes |
| July 3, 2000 |  | Initial Release |
|  |  |  |
| August 23, 2000 |  | The following changes were made: |
|  |  | * Added LIN code value “IN” for Initial Conversion/Opt In |
|  |  | * Added Voltage Code (REF~AQ) with possible codes for Primary, Secondary and Transmission and associated Reason for Change Code (REF~TD~REFAQ) |
|  |  | * Clarified Standard Interconnection Point (REF~SPL) |
|  |  | * Removed Settlement Zone (REF~S1) and associated Reason for Change Code (REF~TD~REFS1) |
|  |  | * Changed ERCOT/Non-ERCOT to Power Region and added the codes: ERCOT, WSCC, SERC and SPP |
|  |  | * Added NM101 codes for Meter Addition (MA), Meter Removal (MR) and Meter Exchange (MX) along with their associated Reason for Change Codes (REF~TD) |
|  |  | * Added Old Meter Number for Meter Exchange |
|  |  | * Added Meter information – Meter Multiplier (REF~4P), Number of Dials (REF~IX) |
|  |  | * Removed UFE Zone (REF~D8) and associated Reason for Change Code (REF~TD~REFD8) |
|  |  | * Changed Load Profile (REF~LO), TDSP Rate Class (REF~NH), TDSP Rate Subclass (REF~PR), Meter Cycle (REF~TZ or DTM~313) to Required on Conversion/Create ESI ID. |
|  |  | * Added Start and End Meter Read for Meter Additions, Removals and Exchanges. |
|  |  | * Removed Congestion Zone (REF~ZW) and associated Reason for Change Code (REF~TD~REFZW) |
|  |  | * Change transaction description page |
|  |  | * Remove REF Reference Identification (New Premise Indicator) segment. |
|  |  |  |
| 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 BGN06 Element to BGN segment per Change Control #2000-037. |
|  |  | * Add BGN08 Element to indicate the TX SET Transaction Number per Change Control #2000-015. |
|  |  | * Add examples to end of transaction. |
|  |  | * Add REF~PTC Premise Type to LIN loop per Change Control #2000-006. |
|  |  | * Change REF~AQ Distribution Loss Factor to include 5 TDSP defined codes and the Code “T” Transmission Only per Change Control #2000-035. |
|  |  | * Change REF~SPL from Standard Interconnection Point to Station ID in the LIN loop per Change Control #2000-004. |
|  |  | * Add Time of Use code 71-- Summer Super On-Peak to REF04 of REF~4P, REF~IX, Q2 and Q3 Segments in the NM1 loop per Change Control #2000-18. |
|  |  | * Change the gray box Level 1 note to read “Create ESI ID Request: Not Used” instead of “Create ESI ID Request: Required” in the REF~NH TDSP Rate Class segment and the REF~PR TDSP Rate Subclass segment in the NM1 loop per Change Control #2000-003. |
|  |  | * Remove codes NM1MA, NM1MR and NM1MX; add codes REF4P, REFIX, REFMT and REFPRT to REF~TD in the NM1 loop per Change Control #2000-009.. |
| December 12, 2000  Version 1.2 (Continued) |  | * Add REF~PRT Unmetered Service class in the NM1 loop per Change Control #2000-002. |
|  |  | * Add REF~TD code of DTM307 in the LIN loop to indicate Change of Pilot Eligibility Date per Change Control #2000-040. |
|  |  |  |
| February 15, 2001  Version 1.2a |  | The following changes were made: |
|  |  | * Add REF PHC (Energized/De-energized) to the LIN loop to indicate to ERCOT when a facility is energized or de-energized during conversion per Change Control #2001-044. |
|  |  | * Change the N106 element in the N1 (Transmission Distribution Service Provider) segment from required to dependent to facilitate when the TDSP is neither the sender or receiver (i.e. when ERCOT forwards the transaction to the CR) per Change Control #2001-045. |
|  |  |  |
| March 16, 2001  Version 1.3 |  | The following changes were made: |
|  |  | * Removed Scenario Names from Transaction Description page |
|  |  | * Corrected the How to Use this Implementation Guide page |
|  |  | * Changed RA/Clearinghouse to ERCOT |
|  |  | * Corrected the gray box example for Distribution Loss Factor Code (REF~AQ) |
|  |  | * Corrected the spelling of Southwest Power Pool on REF~SR |
|  |  | * Changed “Standard Interconnection Point” to “Station ID” on REF~TD~REFSPL |
|  |  | * Corrected examples on the NM1 segments |
|  |  | * Corrected gray box example on REF~46 Old Meter Number |
|  |  | * Added decimal example to gray box for REF~4P Meter Multiplier |
|  |  | * Corrected gray box example on REF~Q2 Start Meter Read |
|  |  | * Added the descriptions to REF~Q3 C04002 which were omitted prior |
|  |  | * Clarified requirements for meter additions, meter exchanges or meter removals in NM1 Loop REF segments |
|  |  | * Added REF~TD Reason for Change code REF~TD~REFPTC |
|  |  |  |
| August 3, 2001  Version 1.4 |  | The following changes were made: |
|  |  | * Per Change Control 2001-047, added codes to REF~PRT for unmetered service types: * “ED” - Electronic Device * “CU” -Cat Unit * “BS” -Bus Shelters * “TR” – Transceiver * “PO” -Phone Outlet * “PA” - Power Analog node * “PB” - Phone Booth * “AN” – Antenna   “OT” - Other Unmetered |
|  |  | * Per Change Control 2001-109, delete the words “addition” & “retirement” on the transaction set page in the bullet from ERCOT to current CR, etc. as ERCOT does not forward the 814\_20 to the CR in this situation |
|  |  | * Per Change Control 2001-114: * remove the REF segment Meter Service Voltage. * remove the Reason for Change “REF4L – Change Meter Service Voltage” code from the REF ~TD segment & the REF~4L in the example, change SE01 value. |
|  |  | * Per Change Control 2001-116: * Add sentence to REF and REF01 of Load Profile gray box: “The load profile is made up of the following codes, with mandatory underscores between each: Profile Group and Segment Code, Weather Zone Code, Meter Data Type Code, Weather Sensitivity Code, TOU Schedule Code. The value shall correspond to an ERCOT-defined Load Profile that is published on the ERCOT website.” * Change the example in the gray box of the REF~LO from REF~LO~GS to REF~LO~RESLOWR\_WEST\_NIDR\_NWS\_NOTOU * Change the example in the gray box on the REF~SPL from REF~SPL~~MESA SUBSTATION to REF~SPL~~WEST * Change Example #1 load profile to REF~LO~RESLOWR\_WEST\_NIDR\_NWS\_TOU01 * Change Example #1 station id to REF~SPL~~WEST * Change Example #2 load profile to REF~LO~ RESHIWR\_WEST\_NIDR\_NWS\_TOU09 |
|  |  | * Per Change Control 2001-120: * Change explanation in REF\*Q2 gray box from “Meter Addition: Required” to “Meter Addition: Required when adding meters. Not required when adding unmetered service devices.” * Change explanation in REF\*Q3 gray box from “Meter Removal: Required” to “Meter Removal: Required when removing meters. Not required when removing unmetered service devices.” |
|  |  | * Per Change Control 2001-123 |
|  |  | * Add note to N1, N2 and N4: When submitting a change for the customer loop, service address, city and state and zip code must be provided. If the service address, city, state and zip data are not provided, they will be replaced with blanks in the ERCOT system. |
|  |  | * Per Change Control 2001-124 |
|  |  | * Gray box on NM1 loop clarifiying: When replacing two meters with one meter, send two NM1 loops: one NM1 loop removes one of the existing meters and another NM1 loop exchanges the other existing meter. * Add another example showing how to exchange two existing meters for one new meter * Renumber examples |
|  |  | * Per Change Control 2001-149 |
|  |  | * Delete the REF where REF01=KK (Wholesale Meter Point) segment. ERCOT does not permit electronic establishment or updating of Wholesale Delivery points. Paperwork must be submitted in order to establish these points. |
|  |  | * Remove the Reason for Change code REFKK from the REF~TD |
|  |  | * Modify gray box in REF~4P. Ref. 2001-118 |
|  |  | * Modified example in REF~IX. Changed from K1MON to KHMON |
|  |  | * Fixed example in gray box of REF~MT from “REF~IX~6.0~TU^51” to “REF~IX~6.0~KHMON~TU^51” |
|  |  | Added REDLINES from CHANGE CONTROLS:   * 1. 11/14/01   2002-252 02/22/02   * 1. 02/22/02   2002-277 02/22/02  2001-219 – 02/27/02 – TEMP meter indicator in service address |
|  |  |  |
| June 17, 2002  Version 1.5 |  | The following changes were made: |
|  |  | * Remove gray box QTR Quarterly from REF02 Meter Type. Ref.2001-179 |
| 7/16/02 |  | * Added clarification to REF03 of the REF~PRT Ref: 2001-215 |
|  |  | * Update gray box for Example REF~TD~REF4P . Ref. 2001-245 |
|  |  | * Removed “9” as DUNs option for ERCOT. Ref: 2002-267 |
|  |  | * Add Special Needs REF~SU segment, Example 6 of 7, and code in REF~TD for Special Needs. Ref.2002-258 |
|  |  | * Added examples for special needs indicator. Ref:2002.307 |
|  |  | * Applied Change Control 2002-322, Add Language to the grey boxes as shown in the below Redline 814\_20 NM1 Meter Level Information Segment. |
| 8/5/02 |  | * Corrected Typo in REF~SU Ref: 2002-338 |
| 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 2002-325 – Clean-up Change Control for the 2001-179. Modified language in Change Control Log to “Remove gray box QTR Quarterly from REF02 Meter Type. Ref.2001-179.” This was previously missed at time of update of implementation guide and is needed to reflect the approved change control. |
|  |  | * Change Control 2002-327 – Clean-up Change Control for the 2001-215. Added clarification to REF03 of the REF~PRT. This was previously missed at time of update of implementation guide and is needed to reflect the approved change control. |
|  |  | * Change Control 2002-353 – Updated Change Control Log to add approved Version 1.5 Clean-up Change Controls 2002-325 and 2002-327. These were previously missed at time of update of implementation guide and are needed to reflect the approved cleanup change controls. |
| 5/29/03 |  | * Change Control 2003-502 Make the Start Date and Eligibility Date both Optional from the TDSP |
| 5/29/03 |  | * Change Control 2003-505 Update the transaction flow in the 814\_20 to reflect ERCOT’s system changes to only send one 814\_20 when the New CR is also the Current CR |
| 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 2002-427 Add note to the Meter Multiplier (REF~4P), Number of Dials (REF~IX) and the Meter Type (REF~MT) that the segments are not used for unmetered devices |
| 5/29/03 |  | Change Control 2002-442 Update example #5 of 7 |
| 5/29/03 |  | Change Control 2002-452 Remove references in the Document Flow that indicate the 814\_20 is sent to and the 814\_21 is sent from the CSA CR |
| 5/29/03 |  | Change Control 2002-467 Include how to use section for the 814\_20 transaction |
| 5/29/03 |  | Change Control 2003-505 Update the transaction flow in the 814\_20 to reflect ERCOT’s system changes to only send one 814\_20 when the New CR is also the Current CR |
| 5/30/03 |  | Change Control 2003-513 The 814\_20 would need a new REF segment for Competitive Meter Owner Type at the NM1 Meter level loop, and REF01 populated with the code “0P” Owner Type to indicate that the Customer, CR, Third Party or TDSP is the owner. |
| 1/29/04 |  | Change Control 2003-552 Verbiage contained in the REF~0P gray box indicates incorrectly that this segment is required any time a meter is added or exchanged on an ESI ID |
| July 21st, 2003  Version 2.0 |  |  |
| 8/15/03 |  | Change Control 2003-547 – Please include the Move-In/Move-Out Task Force (MIMO) High Level Requirement Specification as part of the Baseline for Version 2.0 |
| October 8, 2004  Version 2.0A |  | Change Control 2004-617:   * Update the DTM Effective Date gray box, DTM Start Date gray box, & DTM End Date gray box to reflect validations that are in ERCOT’s Lodestar system.   Change Control 2004-634:   * As per discussions at the June 04 TX SET meeting, additional language should be added to each Transaction Set to identify the requirements and required response to the 997 Functional acknowledgement - The Functional Acknowledgement (997) transaction set from the receiver of the originating transaction to the sender of the originating transaction, is used to acknowledge the receipt of the originating transaction and indicate whether the transaction passed ANSI X12 validation. This acknowledgement does not imply that the originating transaction passed Texas SET validation. “CR, TDSP, or ERCOT shall respond with a 997 within 24 hours of receipt of an inbound transaction.”   Code order for the REF0P was corrected in the REF~TD to match SEF File. |
| March 1, 2005  Version 2.1 |  | Change Control 2003-569:   * Provide gray box clarification to the LIN segment to indicate that the Texas Market supports only 1 LIN loop per EDI Transaction.   Change Control 2003-576:   * 1. Change gray box in the REF = 4P, MT, To NM1 = MQ, Required. 2. Add examples   Change Control 2003-578:   * Added a new change Code to indicate the annual Load Profile changes   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 2006-693:   * A TDSP may create ESI IDs using subdivision plats and at this time no TDSP equipment has been installed. These ESI IDs are created with a profile based on the assumption that each address may be residential with the intention later on being to correct the profile, if necessary, when the metering equipment is installed and energized. The ESI ID’s Load Profile cannot be modified without meter data because currently in the implementation guides whenever Load Profile is changing the meter data (meter number, multiplier, and meter type) is required, however all the information may not be available at the time when the profile is being corrected.   Change Control 2006-694:   * ERCOT validation is allowing only 5 or 9 digits in the customer service address zip segment. ANSI validation on the segment is 3 to 15 characters. Updated so that Market Participants know that only 5 or 9 digits can be submitted in this field.   Change Control 2006-696:   * Remove BPO from 814\_20 Guides. The necessary information is available in the appropriate grey boxes for each segment. |
| November 30, 2010  Version 3.0A |  | 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 2010-734:   * New REF Segment to the 814\_20 with Switch Hold Add and Removal and new Reason for Change added to REF~TD segment to support Meter Tampering Rulemaking   Change Control 2010-747:   * In order to provide REPs information on whether an ESI ID has a provisioned Advanced Meter installed at the premise, a new REF segment will be added to the 814\_04, 814\_05, 814\_14, 814\_22 and 814\_20.   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 2011-776:   * This Change Control updates the existing 2010-734 Change Control for Switch Hold.  This new Change Control breaks out Switch Hold into Switch Hold for Tampering and Switch Hold for Payment Plan.   Change Control 2011-778:   * This Change Control adds a new code "R" to the existing Change Control 2010-747 for the 814\_20 transaction only. Adding the “R” code in the 814\_20 will remove the AMSM/AMSR code in the event a meter is replaced with non-AMS meter.   Change Control 2011-781:   * The Critical Care Change Controls have been consolidated into this new Change Control. This Change Control replaces 2010-738, 2010-757, 2010-764, 2010-765, 2010-767, 2011-773, and 2011-774.   Change Control 2011-788:   * Clarify in the gray box of the REF~MR that only one REF~MR segment will be sent for each transaction.   Change Control 2011-789:   * Critical Care secondary contact information to be updated to be called Emergency Contact Information. * Remove requirement for TDSPs to send Emergency Contact Information in the transaction and allow the TDSP rule to drive if the contact information is required.   Change Control 2011-795:   * Change Control 2011-781 left off the NM102 and NM109 segments from the new NM1~SC. These are both required for ANSI. |
| November 2, 2020  Version 4.0A |  | Change Control 2020-811:   * Administrative updates to the TX SET Guides in order to reflect actual transaction processing. Changes included limiting number of REF segments, clarification for punctuation and clarification of ESI ID format.   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.   Change Control 2020-824   * Update to the TX SET Guides for the N2 and N3 to only allow one per loop   Change Control 2020-825   * Modify the 814\_20 Implementation Guide to allow the REF~PRT when NM101 equals MQ |
| TBD  Version 5.0 |  | Change Control 2011-794   * Make the “Unmetered Service Type” found in the REF~PRT segment “Optional” for the TDSP when the information is available at the time the 814\_20 Create transaction is established and communicated to ERCOT. This would prevent multiple 814\_20s from being initiated for an ESI ID Create of an Unmetered Service Type and again following-up with another 814\_20 to provide the REF~PRT “Unmetered Service Type” update.   Change Control 2020-819   * Clarify REF~4P and REF~IX are not provided when NM109 is NONE or UNMETERED in the 814\_20   Change Control 2020-821   * Add a new data element to the customer service address segment that will allow for the county to be communicated, to assist with weather moratoriums.   Change Control 2021-831   * Add new REF~MSL segment to communicate the Meter Service Type   Change Control 836   * Add clarification to all name fields that the use of a comma is only valid when associated with a customer name. Name fields with only a comma or other one character punctuation will be rejected. |

**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.

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

Data Element Summary

One or more examples.

**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.

**814 General Request, Response or Confirmation**

ANSI ASC X12 Structure

**Functional Group ID=GE**

**Introduction:**

This Draft Standard for Trial Use contains the format and establishes the data contents of the General Request, Response or Confirmation Transaction Set (814) for use within the context of an Electronic Data Interchange (EDI) environment. This standard can be used to request actions to be performed, to respond to a request for actions to be performed or to confirm information related to actions performed.

**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 | BGN | Beginning Segment | M | 1 |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - N1 |  |  | >1 |  |  |  |  |  |  |  |
|  | 040 | N1 | Name | O | 1 |  | n1 |  |  |  |  |  |  |
|  | 060 | N3 | Address Information | O | 2 |  |  |  |  |  |  |  |  |
|  | 070 | N4 | Geographic Location | O | 1 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Detail:**

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

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | LOOP ID - LIN |  |  | >1 |  |  |  |  |  |  |  |
|  | 010 | LIN | Item Identification | O | 1 |  |  |  |  |  |  |  |  |
|  | 020 | ASI | Action or Status Indicator | O | 1 |  |  |  |  |  |  |  |  |
|  | 030 | REF | Reference Identification | O | >1 |  |  |  |  |  |  |  |  |
|  | 040 | DTM | Date/Time Reference | O | >1 |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - NM1 |  |  | >1 |  |  |  |  |  |  |  |
|  | 080 | NM1 | Individual or Organizational Name | O | 1 |  | n2 |  |  |  |  |  |  |
|  | 130 | REF | Reference Identification | O | >1 |  |  |  |  |  |  |  |  |
|  | 140 | DTM | Date/Time Reference | O | >1 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| M | 150 | SE | Transaction Set Trailer | M | 1 |  |  |  |  |  |  |  |  |

**Transaction Set Notes**

**1.** The N1 loop is used to identify the transaction sender and receiver.

**2.** The NM1 loop is used to identify the parties associated with the individual line item (LIN), such as an individual consumer in a consolidated third party Consumer Service Provider transaction.

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~814~000000001 |

**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 | | | | | | |
|  | | | | 814 |  | General Request, Response or Confirmation | | | |
| **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: BGN Beginning Segment**

**Position:** 020

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the beginning of a transaction set

**Syntax Notes:** **1** If BGN05 is present, then BGN04 is required.

**Semantic Notes:** **1** BGN02 is the transaction set reference number.

**2** BGN03 is the transaction set date.

**3** BGN04 is the transaction set time.

**4** BGN05 is the transaction set time qualifier.

**5** BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | BGN~13~200104011956531~20010401~~~~~20  BGN~13~200104021200719~20010402~~~200104011956531~~20 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **BGN01** | **353** | **Transaction Set Purpose Code** | | | | **M** |  | **ID 2/2** | | |
|  | | | Code identifying purpose of transaction set | | | | | | | |
|  | | | | 13 |  | Request | | | | |
| **Must Use** | **BGN02** | **127** | **Reference Identification** | | | | **M** |  | **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** | **BGN03** | **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. | | | | | | | |
| **Dep** | **BGN06** | **127** | **Reference Identification** | | | | **O** |  | **AN 1/30** | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | |
|  | | | Refers to the BGN02 of the 814\_20 Create/Maintain/Retire ESI ID Request when ERCOT forwards the request. | | | | | | | |
| **Must Use** | **BGN08** | **306** | **Action Code** | | | | **O** |  | **ID 1/2** | | |
|  | | | Code indicating type of action | | | | | | | |
|  | | | This segment is used to initially identify the type of 814 that is being sent or received. Ignore the ANSI X12 definition of the code. | | | | | | | |
|  | | | | 20 |  | Decree Recall | | | | |
|  | | | | | | Indicates Texas SET Transaction 814\_20 | | | |

**Segment: N1 Name (Customer)**

**Position:** 040

**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:** |  | Create ESI ID Request: Required  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used  Name fields shall contain commas only when associated with a valid Customer Name. (Last Name, First Name)  Name fields that are populated with only a comma(s) or any one character punctuation shall be considered invalid and will be rejected by ERCOT and the TDSP.  When submitting a change for the customer loop, service address, city and state and zip code must be provided. If the service address, city, state and zip data are not provided, ERCOT will reject the transaction. |
|  |  | N1~8R~CUSTOMER  N1~8R~X |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **N101** | **98** | **Entity Identifier Code** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code identifying an organizational entity, a physical location, property or an individual | | | | | | | |
|  | | | | 8R |  | Consumer Service Provider (CSP) Customer | | | | |
|  | | | | | | Customer | | | |
| **Must Use** | **N102** | **93** | **Name** | | | | **X** |  | **AN 1/60** | | |
|  | | | Free-form name | | | | | | | |
|  | | | This name field must be used in order to populate the service address in N3 and N4. The sender can determine what they put in this field. | | | | | | | |

**Segment: N3 Address Information (Customer Service Address)**

**Position:** 060

**Loop:** N1 Optional

**Level:** Heading

**Usage:** Optional

**Max Use:** 2

**Purpose:** To specify the location of the named party

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Create ESI ID Request: Required  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used  When submitting a change for the customer loop, service address, city and state and zip code must be provided. If the service address, city, state and zip data are not provided, ERCOT will reject the transaction.  Only one N3 will be sent per N1~8R Customer Loop |
|  |  | N3~123 N MAIN ST~ANY ADDRESS OVERFLOW  EX: For "temporary/construction service" TEMP will always be at the end of the address field segment and would be populated as follows.  N3~123 N MAIN ST TEMP  or  N3~12345 WEST JOHN QUINCY ADAMS BOULEVARD NW BUILDING 17 S~UITE 164-A TEMP |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **N301** | **166** | **Address Information** | **M** |  | **AN 1/55** | |
|  | | | Address information | | | |
|  | | | Customer Service Address | | | |
| **Dep** | **N302** | **166** | **Address Information** | **O** |  | **AN 1/55** | |
|  | | | Address information | | | |
|  | | | Customer Service Address Overflow  Condition: If there is an overflow, it must be sent. | | | |

**Segment: N4 Geographic Location (Customer Service Address)**

**Position:** 070

**Loop:** N1 Optional

**Level:** Heading

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify the geographic place of the named party

**Syntax Notes:** **1** If N406 is present, then N405 is required.

**Semantic Notes:**

**Comments:** **1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

**2** N402 is required only if city name (N401) is in the U.S. or Canada.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Create ESI ID Request: Required. The first 5 characters of the N403 will be used for validation against service zip stored at ERCOT.  Change ESI ID Information Request: Required if changing this item. The first 5 characters will be used for validation against service zip stored at ERCOT.  Retire ESI ID Request: Not Used  When submitting a change for the customer loop, service address, city and state and zip code must be provided. If the service address, city, state and zip data are not provided, ERCOT will reject the transaction. |
|  |  | N4~ANYTOWN~TX~78111~~CO~HARRIS |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **N401** | **19** | **City Name** | | | | **O** |  | **AN 2/30** | | |
|  | | | Free-form text for city name | | | | | | | |
| **Must Use** | **N402** | **156** | **State or Province Code** | | | | **O** |  | **ID 2/2** | | |
|  | | | Code (Standard State/Province) as defined by appropriate government agency | | | | | | | |
| **Must Use** | **N403** | **116** | **Postal Code** | | | | **O** |  | **ID 3/15** | | |
|  | | | Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | | | | | | | |
|  | | | Postal codes will only contain digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded. Only 5 or 9 digits allowed. | | | | | | | |
| **Must Use** | **N405** | **309** | **Location Qualifier** | | | | **X** |  | **ID 1/2** | | |
|  | | | Code identifying type of location | | | | | | | |
|  | | | | CO |  | County/Parish and State | | | | |
|  | | | | | | Service Address County Name | | | |
| **Must Use** | **N406** | **310** | **Location Identifier** | | | | **O** |  | **AN 1/30** | | |
|  | | | Code which identifies a specific location | | | | | | | |
|  | | | Will use the county names listed on NOAA. Note the word "COUNTY" will not be included. | | | | | | | |

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

**Position:** 040

**Loop:** N1 Optional

**Level:** Heading

**Usage:** Optional

**Max Use:** 1

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

**Syntax Notes:** **1** At least one of N102 or N103 is required.

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

**Semantic Notes:**

**Comments:** **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

**2** N105 and N106 further define the type of entity in N101.

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

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **N101** | **98** | **Entity Identifier Code** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code identifying an organizational entity, a physical location, property or an individual | | | | | | | |
|  | | | | 8S |  | Consumer Service Provider (CSP) | | | | |
|  | | | | | | Transmission Distribution Service Provider (TDSP) | | | |
| **Must Use** | **N102** | **93** | **Name** | | | | **X** |  | **AN 1/60** | | |
|  | | | Free-form name | | | | | | | |
|  | | | TDSP Name | | | | | | | |
| **Must Use** | **N103** | **66** | **Identification Code Qualifier** | | | | **X** |  | **ID 1/2** | | |
|  | | | Code designating the system/method of code structure used for Identification Code (67) | | | | | | | |
|  | | | | 1 |  | D-U-N-S Number, Dun & Bradstreet | | | | |
|  | | | | 9 |  | D-U-N-S+4, D-U-N-S Number with Four Character Suffix | | | | |
| **Must Use** | **N104** | **67** | **Identification Code** | | | | **X** |  | **AN 2/80** | | |
|  | | | Code identifying a party or other code | | | | | | | |
|  | | | TDSP D-U-N-S Number or D-U-N-S + 4 Number | | | | | | | |
| **Dep** | **N106** | **98** | **Entity Identifier Code** | | | | **O** |  | **ID 2/3** | | |
|  | | | Code identifying an organizational entity, a physical location, property or an individual | | | | | | | |
|  | | | TDSP to ERCOT: Required  ERCOT to CR: Not Used | | | | | | | |
|  | | | | 41 |  | Submitter | | | | |

**Segment: N1 Name (ERCOT)**

**Position:** 040

**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  N1~AY~ERCOT~1~183529049~~41 |

**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 | | | | | | | |
| **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:** 040

**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 CR is the receiver, otherwise not used. |
|  |  | N1~SJ~CR NAME~1~007909422~~40 |

**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 | | | | | | | |
| **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 | | | | | | | |
| **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 | | | | |

**Segment: LIN Item Identification**

**Position:** 010

**Loop:** LIN Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify basic item identification data

**Syntax Notes:** **1** If either LIN04 or LIN05 is present, then the other is required.

**2** If either LIN06 or LIN07 is present, then the other is required.

**3** If either LIN08 or LIN09 is present, then the other is required.

**4** If either LIN10 or LIN11 is present, then the other is required.

**5** If either LIN12 or LIN13 is present, then the other is required.

**6** If either LIN14 or LIN15 is present, then the other is required.

**7** If either LIN16 or LIN17 is present, then the other is required.

**8** If either LIN18 or LIN19 is present, then the other is required.

**9** If either LIN20 or LIN21 is present, then the other is required.

**10** If either LIN22 or LIN23 is present, then the other is required.

**11** If either LIN24 or LIN25 is present, then the other is required.

**12** If either LIN26 or LIN27 is present, then the other is required.

**13** If either LIN28 or LIN29 is present, then the other is required.

**14** If either LIN30 or LIN31 is present, then the other is required.

**Semantic Notes:** **1** LIN01 is the line item identification

**Comments:** **1** See the Data Dictionary for a complete list of IDs.

**2** LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required  Only 1 LIN Loop per EDI transaction is accepted in the Texas Market |
|  |  | LIN~1~SH~EL~SH~MP |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **LIN01** | **350** | **Assigned Identification** | | | | **O** |  | **AN 1/20** | | |
|  | | | Alphanumeric characters assigned for differentiation within a transaction set | | | | | | | |
| **Must Use** | **LIN02** | **235** | **Product/Service ID Qualifier** | | | | **M** |  | **ID 2/2** | | |
|  | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | | | | |
|  | | | | SH |  | Service Requested | | | | |
| **Must Use** | **LIN03** | **234** | **Product/Service ID** | | | | **M** |  | **AN 1/48** | | |
|  | | | Identifying number for a product or service | | | | | | | |
|  | | | Commodity | | | | | | | |
|  | | | | EL |  | Electric Service | | | | |
| **Must Use** | **LIN04** | **235** | **Product/Service ID Qualifier** | | | | **X** |  | **ID 2/2** | | |
|  | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | | | | |
|  | | | | SH |  | Service Requested | | | | |
| **Must Use** | **LIN05** | **234** | **Product/Service ID** | | | | **X** |  | **AN 1/48** | | |
|  | | | Identifying number for a product or service | | | | | | | |
|  | | | | MP |  | Maintain Premise | | | | |
|  | | | | | | Indicates this transaction relates to the establishment, maintenance, and termination of premise data. | | | |

**Segment: ASI Action or Status Indicator**

**Position:** 020

**Loop:** LIN Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To indicate the action to be taken with the information provided or the status of the entity described

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Identifies the action to be taken or the status of a requested action for the service identified in the LIN segment. |
|  |  | Required |
|  |  | ASI~7~001 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **ASI01** | **306** | **Action Code** | | | | **M** |  | **ID 1/2** | | |
|  | | | Code indicating type of action | | | | | | | |
|  | | | | 7 |  | Request | | | | |
| **Must Use** | **ASI02** | **875** | **Maintenance Type Code** | | | | **M** |  | **ID 3/3** | | |
|  | | | Code identifying the specific type of item maintenance | | | | | | | |
|  | | | | 001 |  | Change | | | | |
|  | | | | | | Change ESI ID Information | | | |
|  | | | | 002 |  | Delete | | | | |
|  | | | | | | Retire ESI ID | | | |
|  | | | | 021 |  | Addition | | | | |
|  | | | | | | Create ESI ID | | | |

**Segment: REF Reference Identification (Distribution Loss Factor Code)**

**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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | The Distribution Loss Factor Code is used to identify the related loss factor value that is used in settlement. The code must be contained in a loss factor table that the TDSP has provided to ERCOT. It is usually related to the delivery voltage or rate class. It is not the same as the transformer loss factor used when the TDSP meters service at a different point than it delivers service.  Only one REF~AQ will be sent per transaction. |
|  |  | Create ESI ID Request: Required  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used |
|  |  | REF~AQ~T |

**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 | | | | | | | |
|  | | | | AQ |  | Access Code | | | | |
|  | | | | | | Distribution Loss Factor Code | | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/30** | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | |
|  | | | With the exception of code "T", each Distribution Company will post what each of the next 5 codes represent and how they are applied. | | | | | | | |
|  | | | | A |  |  | | | | |
|  | | | | B |  |  | | | | |
|  | | | | C |  |  | | | | |
|  | | | | D |  |  | | | | |
|  | | | | E |  |  | | | | |
|  | | | | T |  | Transmission Only | | | | |

**Segment: REF Reference Identification (AMS Indicator)**

**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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | The AMS Indicator is used to identify a meter that has a Load Profile of AMS and is provisioned at ERCOT.  Only one REF~MR segment will be sent per transaction. |
|  |  | Create ESI ID Request: Optional  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used |
|  |  | REF~MR~AMSM |

**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 | | | | | | | |
|  | | | | MR |  | Merchandise Type Code | | | | |
|  | | | | | | Indication that an AMS meter has been installed and provisioned at the premise for this ESI ID or is a non-AMS meter | | | |
| **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 | | | | | | | |
|  | | | | AMSM |  | AMS Manual | | | | |
|  | | | | | | ESI ID has provisioned AMS meter without remote connect and disconnect capability | | | |
|  | | | | AMSR |  | AMS Remote | | | | |
|  | | | | | | ESI ID has provisioned AMS meter with remote connect and disconnect capability | | | |
|  | | | | R |  | Remove | | | | |
|  | | | | | | Remove the AMSM or AMSR indicator. | | | |

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

**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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Create ESI ID Request: Required  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used  Only one REF~PTC will be sent per transaction. |
|  |  | REF~PTC~01 |

**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 | | | | | | | |
|  | | | | PTC |  | Patent Type | | | | |
|  | | | | | | Premise 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 | | | | | | | |
|  | | | | 01 |  | Residential | | | | |
|  | | | | | | Designates a premise where a customer will reside or an unmetered service located at such a premise (e.g. Outdoor Lights) provided it is not a master metered, multi-family facility, or a facility metered as a commercial facility. | | | |
|  | | | | 02 |  | Small Non-residential | | | | |
|  | | | | | | Designates a nonresidential premise with peak demand of 1 Megawatt or below (i.e. Where the demand for the previous 12 months is less than or equal to 1 megawatt) or an unmetered service located at such a premise. | | | |
|  | | | | 03 |  | Large Non-residential | | | | |
|  | | | | | | Designates a nonresidential premise with peak demand greater than 1 Megawatt (i.e. Where demand for at least 1 month of the previous 12 months is greater than 1 Megawatt) or an unmetered service located at such a premise. | | | |

**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:**

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

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code qualifying the Reference Identification | | | | | | | |
|  | | | | Q5 |  | Property Control Number | | | | |
|  | | | | | | Electric Service Identifier (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  ESI ID will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) and special characters must be excluded. ESI ID length must be at least 8 and no more than 36 characters. | | | | | | | |

**Segment: REF Reference Identification (Switch Hold Indicator Payment Plan)**

**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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | This transaction allows multiple change requests on a single 814. If any single change request is invalid, the transaction is rejected in its entirety with appropriate reject reasons.  Only one REF~SP will be sent per transaction. |
|  |  | Create ESI ID Request: Not Used  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used |
|  |  | REF~SP~SHA |

**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 | | | | | | | |
|  | | | | SP |  | Scan Line | | | | |
|  | | | | | | Switch Hold Indicator Payment Plan | | | |
| **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 | | | | | | | |
|  | | | | SHA |  | Switch Hold Added | | | | |
|  | | | | SHR |  | Switch Hold Removed | | | | |

**Segment: REF Reference Identification (Station 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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | The value shall correspond to an ERCOT-defined Station ID that is published on the ERCOT website.  Only one REF~SPL will be sent per transaction. |
|  |  | Create ESI ID Request: Required  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used |
|  |  | REF~SPL~~WEST |

**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 | | | | | | | |
|  | | | | SPL |  | Standard Point Location Code (SPLC) | | | | |
|  | | | | | | Substation at which the TDSP's distribution system is connected to the transmission grid for the Service Delivery Point (SDP). The value shall correspond to an ERCOT-defined Station ID that is published on the ERCOT website. | | | |
| **Must Use** | **REF03** | **352** | **Description** | | | | **X** |  | **AN 1/80** | | |
|  | | | A free-form description to clarify the related data elements and their content | | | | | | | |
|  | | | Station ID | | | | | | | |

**Segment: REF Reference Identification (Switch Hold Indicator Tampering)**

**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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | This transaction allows multiple change requests on a single 814. If any single change request is invalid, the transaction is rejected in its entirety with appropriate reject reasons.  Only one REF~ST will be sent per transaction. |
|  |  | Create ESI ID Request: Not Used  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used |
|  |  | REF~ST~SHA |

**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 | | | | | | | |
|  | | | | ST |  | Store Number | | | | |
|  | | | | | | Switch Hold Indicator Tampering | | | |
| **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 | | | | | | | |
|  | | | | SHA |  | Switch Hold Added | | | | |
|  | | | | SHR |  | Switch Hold Removed | | | | |

**Segment: REF Reference Identification (Special Needs Indicator)**

**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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Create ESI ID Request: Not Used  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used  Only one REF~SU will be sent per transaction.  A "Y" in this field means that the customer is either:  A residential customer who qualifies through the Residential Critical Care Eligibility Determination Form, as issued by the PUCT.  Or  A customer for whom electric service is considered crucial for the protection and maintenance of public safety pursuant to Subst. Rules 25.52 and 25.53.  Or  An industrial customer for whom an interruption or suspension of service will create a dangerous or life threatening condition at the customers premise.  REF~SU~N |
|  |  | REF~SU~Y~CLI |

**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 | | | | | | | |
|  | | | | SU |  | Special Processing Code | | | | |
|  | | | | | | Special Needs Indicator | | | |
| **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 | | | | | | | |
|  | | | | N |  | No | | | | |
|  | | | | | | Special Needs are not required | | | |
|  | | | | Y |  | Yes | | | | |
|  | | | | | | Special Needs are required | | | |
| **Dep** | **REF03** | **352** | **Description** | | | | **X** |  | **AN 1/80** | | |
|  | | | A free-form description to clarify the related data elements and their content | | | | | | | |
|  | | | Required when REF02 = Y indicating Special Needs are required  Used to communicate the Customer's Special Needs Status as defined by PUCT Subst. Rule 25.497 "Customer Protection Rules Relating to Designation of Critical Care Customers", otherwise not used. | | | | | | | |
|  | | | | CCC |  | Critical Care Residential Customer | | | | |
|  | | | | CCCT |  | Critical Care Residential Customer - Temporary | | | | |
|  | | | | | | This temporary status is required when the TDSP deems the information received in the form is incomplete. This temporary assignment will be applicable for 14 days and noted in the DTM Expiration Date segment. | | | |
|  | | | | CLI |  | Critical Load Industrial Customer | | | | |
|  | | | | CLP |  | Critical Load Public Safety Customer | | | | |
|  | | | | CRC |  | Chronic Condition Residential Customer | | | | |
|  | | | | CRCT |  | Chronic Condition Residential Customer - Temporary | | | | |
|  | | | | | | This temporary status is required when the TDSP deems the information received in the form is incomplete. This temporary assignment will be applicable for 14 days and noted in the DTM Expiration Date segment. | | | |

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

**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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Create ESI ID Request: Required  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used  Only one REF~SR will be sent per transaction. |
|  |  | REF~SR~ERCOT |

**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 | | | | |
|  | | | | | | Service Relationship | | | |
| **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 | | | | | | | |
|  | | | | ERCOT |  | Electric Reliability Council of Texas | | | | |
|  | | | | SERC |  | Southeast Electric Reliability Council | | | | |
|  | | | | SPP |  | Southwest Power Pool | | | | |
|  | | | | WSCC |  | Western States Coordinating Council | | | | |

**Segment: REF Reference Identification (Reason for Change)**

**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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | This transaction allows multiple change requests on a single 814. If any single change request is invalid, the transaction is rejected in its entirety with appropriate reject reasons.  More than one REF~TD may be present. |
|  |  | Create ESI ID Request: Not Used  Change ESI ID Information Request: Required change is at an ESI ID level (Header or LIN Loop), otherwise not used.  Retire ESI ID Request: Not Used |
|  |  | REF~TD~N18R |

**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 | | | | | | |
|  | | | | TD |  | Reason for Change | | | |
| **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 | | | | | | |
|  | | | | DTM036 |  | Change Expiration Date | | | |
|  | | | | DTM307 |  | Change Pilot Eligibility Date | | | |
|  | | | | N18R |  | Change Customer Name/Service Address | | | |
|  | | | | REFAQ |  | Change Distribution Loss Factor Code | | | |
|  | | | | REFMR |  | Change AMS Indicator | | | |
|  | | | | REFPTC |  | Change Premise Type | | | |
|  | | | | REFSP |  | Change Switch Hold Payment Plan Indicator | | | |
|  | | | | REFSPL |  | Change Station ID | | | |
|  | | | | REFSR |  | Change Power Region | | | |
|  | | | | REFST |  | Change Switch Hold Tampering Indicator | | | |
|  | | | | REFSU |  | Change Special Needs Indicator | | | |

**Segment: DTM Date/Time Reference (Expiration Date)**

**Position:** 040

**Loop:** LIN Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** >1

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

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

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

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

**Semantic Notes:**

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required when available in the TDSPs system and is a Residential Premise Type and Special Needs = Y  Only one DTM~036 will be sent per transaction. |
|  |  | DTM~036~20010415 |

**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 | | | | | | |
|  | | | | 036 |  | Expiration | | | |
|  | | | | | | Date coverage expires | | | |
| **Must Use** | **DTM02** | **373** | **Date** | | | | **X** |  | **DT 8/8** | |
|  | | | Date expressed as CCYYMMDD | | | | | | |

**Segment: DTM Date/Time Reference (Effective Date of Change)**

**Position:** 040

**Loop:** LIN Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** >1

**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:** |  | Create ESI ID Request: Not Used  Change ESI ID Information Request: Required  Retire ESI ID Request: Not Used  Only one DTM~152 will be sent per transaction.  Future Dated 814\_20 maintains will be rejected by ERCOT |
|  |  | DTM~152~20010602 |

**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 | | | | | | |
|  | | | | 152 |  | Effective Date of Change | | | |
| **Must Use** | **DTM02** | **373** | **Date** | | | | **X** |  | **DT 8/8** | |
|  | | | Date expressed as CCYYMMDD | | | | | | |

**Segment: DTM Date/Time Reference (Start Date for ESI ID)**

**Position:** 040

**Loop:** LIN Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** >1

**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:** |  | Optional  Create ESI ID Request:  Used if available. ERCOT defaults to a value of processing date minus 180 days if the TDSP chooses to leave the segment out of the transaction.  Future-dated 814\_20 creates will be rejected by ERCOT  Only one DTM~196 will be sent per transaction.  TDSPs must populate the Create Date to effectuate a clean-up effort that is greater than 180 days in the past.  ESI ID Information Request: Not Used  Retire ESI ID Request: Not Used |
|  |  | DTM~196~20010601 |

**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 | | | | | | | |
|  | | | | 196 |  | Start | | | | |
|  | | | | | | Start date for ESI ID | | | |
| **Must Use** | **DTM02** | **373** | **Date** | | | | **X** |  | **DT 8/8** | | |
|  | | | Date expressed as CCYYMMDD | | | | | | | |

**Segment: DTM Date/Time Reference (End Date for ESI ID)**

**Position:** 040

**Loop:** LIN Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** >1

**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:** |  | Create ESI ID Request: Not Used  Change ESI ID Information Request: Not Used  Retire ESI ID Request: Required  Only one DTM~197 will be sent per transaction.  Future-dated 814\_20 retires will be rejected by ERCOT |
|  |  | DTM~197~20010602 |

**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 | | | | | | | |
|  | | | | 197 |  | End | | | | |
|  | | | | | | End date for an ESI ID | | | |
| **Must Use** | **DTM02** | **373** | **Date** | | | | **X** |  | **DT 8/8** | | |
|  | | | Date expressed as CCYYMMDD | | | | | | | |

**Segment: DTM Date/Time Reference (Eligibility Date)**

**Position:** 040

**Loop:** LIN Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** >1

**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:** |  | Optional  Create ESI ID Request: only used for pilot projects and/or Opt In.  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used  Only one DTM~307 will be sent per transaction. |
|  |  | DTM~307~20010602 |

**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 | | | | | | | |
|  | | | | 307 |  | Eligibility | | | | |
|  | | | | | | Date the ESI ID is eligible for participation in the Market Pilot and/or for Opt In. | | | |
| **Must Use** | **DTM02** | **373** | **Date** | | | | **X** |  | **DT 8/8** | | |
|  | | | Date expressed as CCYYMMDD | | | | | | | |

**Segment: NM1 Individual or Organizational Name (Meter Level Information)**

**Position:** 080

**Loop:** NM1 Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To supply the full name of an individual or organizational entity

**Syntax Notes:** **1** If either NM108 or NM109 is present, then the other is required.

**2** If NM111 is present, then NM110 is required.

**Semantic Notes:** **1** NM102 qualifies NM103.

**Comments:** **1** NM110 and NM111 further define the type of entity in NM101.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Create ESI ID Request: Required with "ALL" in NM109  Change ESI ID Information Request: Required if changing is at a meter level  Retire ESI ID Request: Not Used  The codes "ALL" or "NONE" in the NM109 can be used with a Change Transaction.  When replacing two meters with one meter, send two NM1 loops: one NM1 loop removes one of the existing meters and another NM1 loop exchanges the other existing meter. |
|  |  | NM1~MQ~3~~~~~~93~ALL (Create Example)  NM1~MX~3~~~~~~32~GE1203948 (Change Example)  NM1~MQ~3~~~~~~93~ALL (Change Example)  NM1~MQ~3~~~~~~93~UNMETERED (Change Example)  NM1~MQ~3~~~~~~93~NONE (Change Example) |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **NM101** | **98** | **Entity Identifier Code** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code identifying an organizational entity, a physical location, property or an individual | | | | | | | |
|  | | | | MA |  | Party for whom Item is Ultimately Intended | | | | |
|  | | | | | | Meter Addition - used when adding a meter or unmetered devices to an existing ESI ID | | | |
|  | | | | MQ |  | Metering Location | | | | |
|  | | | | | | Meter Information - used for everything except adding, removing or exchanging a specific meter. | | | |
|  | | | | MR |  | Medical Insurance Carrier | | | | |
|  | | | | | | Meter Removal - used when removing a meter or unmetered devices from an existing ESI ID | | | |
|  | | | | MX |  | Juvenile Witness | | | | |
|  | | | | | | Meter Exchange - used when exchanging a meter | | | |
| **Must Use** | **NM102** | **1065** | **Entity Type Qualifier** | | | | **M** |  | **ID 1/1** | | |
|  | | | Code qualifying the type of entity | | | | | | | |
|  | | | | 3 |  | Unknown | | | | |
| **Must Use** | **NM108** | **66** | **Identification Code Qualifier** | | | | **X** |  | **ID 1/2** | | |
|  | | | Code designating the system/method of code structure used for Identification Code (67) | | | | | | | |
|  | | | | 32 |  | Assigned by Property Operator | | | | |
|  | | | | | | Meter Number | | | |
|  | | | | 93 |  | Code assigned by the organization originating the transaction set | | | | |
|  | | | | | | This code is used when:  Meter has NOT been installed,  Meter information is unavailable or  Meter has been removed from the Premise by the TDSP.  Used when NM109 contains:  "ALL", "UNMETERED", or "NONE". | | | |
| **Must Use** | **NM109** | **67** | **Identification Code** | | | | **X** |  | **AN 2/80** | | |
|  | | | Code identifying a party or other code | | | | | | | |
|  | | | Meter Number or,  UNMETERED - for Unmetered Services,  ALL - for ALL Meters  NONE - when the TDSP has NOT installed the Meter. Meter information is unavailable, or Meter has been removed from the Premise by the TDSP.  The code "ALL" cannot be used with a Meter Exchange Transaction.  The code "NONE" can only be used on a Meter Change Request where NM108 = '93'.  For a Meter Addition, this field will contain the new meter number.  For a Meter Removal, this field will contain the old meter number.  For a Meter Exchange, this field will contain the new meter number and the old meter number will be provided in REF~46.  Meter numbers will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and leading and trailing zeros that are part of the meter number must be present. | | | | | | | |

**Segment: REF Reference Identification (Old Meter Number)**

**Position:** 130

**Loop:** NM1 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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Create ESI ID Request: Not Used  Change ESI ID Information Request: Required for a Meter Exchange  Retire ESI ID Request: Not Used  NM101 = MA (Meter Addition): Not Used  NM101 = MX (Meter Exchange): Required  NM101 = MR (Meter Removal): Not Used  NM101 = MQ (Meter Information): Not Used |
|  |  | REF~46~1298741GE |

**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 | | | | | | |
|  | | | | 46 |  | Old Meter Number | | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/30** | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | |
|  | | | Old Meter Number | | | | | | |

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

**Position:** 130

**Loop:** NM1 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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | There will be one REF~4P segment for each Meter Type, creating the potential for more than one REF~4P segment per NM1 Loop.  For instance, if the meter has multiple meter types, and therefore the REF~MT segment is REF~MT~COMBO, there will be multiple REF~4P segments, one to indicate the meter multiplier for each type. For example,  NM1~MQ~3~~~~~~32~1234568MG  REF~MT~COMBO  REF~4P~1200~K1015~TU^41  REF~4P~1~KH015~TU^41  Note: Format of the multiplier could be in the form of a fraction (e.g. 48.78432)  Also note that since the Meter Multiplier is required for each Time of Use, this segment is also used to determine which Time of Use will be sent on the 867 transaction. |
|  |  | Create ESI ID Request: Not Used  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used  NM101 = MA (Meter Addition): Required  NM101 = MX (Meter Exchange): Optional  REF~4P Required when changing the Meter Multiplier (REF~TD~REF4P)  REF~4P NOT Required when NM108 = '93' and NM109 = 'NONE' OR  'UNMETERED'  This segment will not be provided in the NM1 loop for UNMETERED Services  NM101 = MR (Meter Removal): Not Used  NM101 = MQ (Meter Information): Optional  REF~4P Required when changing the Load Profile (REF~TD~REFLO) and Meter  Information is known (NM108 = 32 and NM109 = 123456789 (Meter Number)). |
|  |  | REF~4P~10~KHMON~TU^41  REF~4P~1~K1MON~TU^41  REF~4P~1.5~K1MON~TU^41 |

**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 | | | | | | | |
|  | | | | 4P |  | Affiliation Number | | | | |
|  | | | | | | Meter Multiplier  (Ending Reading - Beginning Reading) \* Meter Multiplier = Billed 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 | | | | | | | |
|  | | | Meter Multiplier | | | | | | | |
| **Must Use** | **REF03** | **352** | **Description** | | | | **X** |  | **AN 1/80** | | |
|  | | | A free-form description to clarify the related data elements and their content | | | | | | | |
|  | | | Meter Type (see REF~MT for valid codes). "COMBO" is not a valid code for this element. | | | | | | | |
| **Must Use** | **REF04** | **C040** | **Reference Identifier** | | | | **O** |  |  | | |
|  | | | To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier | | | | | | | |
|  | | | Note this is a composite data element. Populate C04001 & C04002. | | | | | | | |
| **Must Use** | **C04001** | **128** | **Reference Identification Qualifier** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code qualifying the Reference Identification | | | | | | | |
|  | | | | TU |  | Trial Location Code | | | | |
|  | | | | | | Time of Use | | | |
| **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 | | | | | | | |
|  | | | | 41 |  | Off Peak | | | | |
|  | | | | 42 |  | On Peak | | | | |
|  | | | | 43 |  | Intermediate Peak | | | | |
|  | | | | 51 |  | Totalizer | | | | |
|  | | | | | | Totalizer/Total/Max (Demand) | | | |
|  | | | | 71 |  | Summer Super On Peak | | | | |

**Segment: REF Reference Identification (Metered Service Type List)**

**Position:** 130

**Loop:** NM1 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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | This segment is used to provide additional information to the Competitive Retailer to describe the Service Type that is being Metered for this ESI ID.  Only one REF~MSL segment that includes Only one REF02 (M01-M44) Code shall be sent in one 814\_20 transaction. The one REF02 (M01-M44) Code shall represent the primary type of service that is being metered for the Service Address. |
|  |  | Create ESI ID Request: Optional  Change ESI ID Information Request: Optional  Retire ESI ID Request: Not Used  NM101 = MA: Optional  NM101 = MQ: Optional  NM101 = MX: Optional  NM101 = MR: Not Used |
|  |  | REF~MSL~M01  REF~MSL~M44~FIREWORKS STAND |

**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 | | | | | | | |
|  | | | | MSL |  | Mail Slot | | | | |
|  | | | | | | Metered Service Type List | | | |
| **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. | | | | | | | |
|  | | | | M01 |  | House | | | | |
|  | | | | M02 |  | Apartment | | | | |
|  | | | | M03 |  | Condominium or Townhouse or Penthouse | | | | |
|  | | | | M04 |  | Cabana or Clubhouse | | | | |
|  | | | | M05 |  | Garage or Garage Apartment | | | | |
|  | | | | M06 |  | Modular Home | | | | |
|  | | | | M07 |  | Mobile Home Inside or Outside Trailer Park | | | | |
|  | | | | M08 |  | Residential Outbuilding | | | | |
|  | | | | M09 |  | RV Park or RV Park Facilities | | | | |
|  | | | | M10 |  | Duplex or Quadplex | | | | |
|  | | | | M11 |  | Government Emergency Housing (FEMA) | | | | |
|  | | | | M12 |  | Temporary Service Pole Used for Construction | | | | |
|  | | | | M13 |  | Office or Retail Space | | | | |
|  | | | | M14 |  | Fitness Center | | | | |
|  | | | | M15 |  | Building Services, Laundry or Maintenance Building | | | | |
|  | | | | M16 |  | Pool Facilities | | | | |
|  | | | | M17 |  | Cable TV Service (CATV) | | | | |
|  | | | | M18 |  | Cellular Sites on TDSP Property | | | | |
|  | | | | M19 |  | Cellular Sites on City or Municipal Property | | | | |
|  | | | | M20 |  | Traffic Signal | | | | |
|  | | | | M21 |  | Sign Board or Billboard | | | | |
|  | | | | M22 |  | Park Facilities | | | | |
|  | | | | M23 |  | Electric Gate | | | | |
|  | | | | M24 |  | Lift Station, Septic Tank or Septic System | | | | |
|  | | | | M25 |  | Water Well | | | | |
|  | | | | M26 |  | Irrigation System | | | | |
|  | | | | M27 |  | Pump or Pumping Station | | | | |
|  | | | | M28 |  | Elevator | | | | |
|  | | | | M29 |  | Main Distribution Panel (MDP) | | | | |
|  | | | | M30 |  | Barn, Farm or Ranch Facilities | | | | |
|  | | | | M31 |  | Outdoor Lighting | | | | |
|  | | | | M32 |  | Parking Facilities | | | | |
|  | | | | M33 |  | Storage Facilities | | | | |
|  | | | | M34 |  | Workshop | | | | |
|  | | | | M35 |  | School and/or Sports Facilities | | | | |
|  | | | | M36 |  | Church Facilities | | | | |
|  | | | | M37 |  | First Responder Facilities (i.e. Fire, Police, EMS) | | | | |
|  | | | | M38 |  | Municipal Facilities | | | | |
|  | | | | M39 |  | Electric Vehicle Charging Station (Level 2) | | | | |
|  | | | | M40 |  | Electric Vehicle Super Charging Station (Level 3) | | | | |
|  | | | | M41 |  | Battery Storage Unit | | | | |
|  | | | | M42 |  | Non-Wholesale Storage Load (NWSL) | | | | |
|  | | | | M43 |  | Wholesale Storage Load (WSL) | | | | |
|  | | | | M44 |  | Other (Requires REF03 Description) | | | | |
| **Dep** | **REF03** | **352** | **Description** | | | | **X** |  | **AN 1/80** | | |
|  | | | A free-form description to clarify the related data elements and their content | | | | | | | |
|  | | | Required when REF02 = M44 (Other) to provide Competitive Retailer with specific Metered Service Type when the specific type is not included in the above list. | | | | | | | |
|  | | | 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: REF Reference Identification (Number of Dials)**

**Position:** 130

**Loop:** NM1 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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | There will be one REF~IX segment for each applicable Meter Type, creating the potential for more than one REF~IX segment per NM1 Loop.  For instance, if the meter has multiple types, and therefore the REF~MT segment is REF~MT~COMBO, there may be multiple REF~IX segments, one to indicate the number of dials for each type that has dials. For example,  NM1~MQ~3~~~~~~32~1234568MG  REF~MT~COMBO  REF~IX~6.0~KHMON~TU^51  REF~IX~5.1~KHMON~TU^51 |
|  |  | Create ESI ID Request: Not Used  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used  NM101 = MA (Meter Addition): Required  NM101 = MX (Meter Exchange): Optional  REF~IX will NOT be provided in the NM1 loop if service type is 'UNMETERED' or  Demand.  REF~IX will NOT be provided when the NM108 = '93' and NM109 = 'NONE' or  'UNMETERED'.  This segment will not be provided in the NM1 loop for UNMETERED Services  NM101 = MR (Meter Removal): Not Used  NM101 = MQ (Meter Information): Optional  REF~IX Required only if changing the number of dials |
|  |  | REF~IX~6.0~KHMON~TU^51 |

**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 | | | | | | | |
|  | | | | IX |  | Item Number | | | | |
|  | | | | | | Number of Dials on the Meter displayed as X.Y. The notation X.Y means that the meter has X dials to the left of the decimal point, and Y dials to the right. | | | |
| **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 | | | | | | | |
|  | | | Number of Dials | | | | | | | |
| **Must Use** | **REF03** | **352** | **Description** | | | | **X** |  | **AN 1/80** | | |
|  | | | A free-form description to clarify the related data elements and their content | | | | | | | |
|  | | | Meter Type (see REF~MT for valid codes). "COMBO" is not a valid code for this element. | | | | | | | |
| **Must Use** | **REF04** | **C040** | **Reference Identifier** | | | | **O** |  |  | | |
|  | | | To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier | | | | | | | |
|  | | | Note that this is a composite data element. Populate C04001 and C04002. | | | | | | | |
| **Must Use** | **C04001** | **128** | **Reference Identification Qualifier** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code qualifying the Reference Identification | | | | | | | |
|  | | | | TU |  | Trial Location Code | | | | |
|  | | | | | | Time of Use | | | |
| **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 | | | | | | | |
|  | | | | 41 |  | Off Peak | | | | |
|  | | | | 42 |  | On Peak | | | | |
|  | | | | 43 |  | Intermediate Peak | | | | |
|  | | | | 51 |  | Totalizer | | | | |
|  | | | | 71 |  | Summer Super On Peak | | | | |

**Segment: REF Reference Identification (Load Profile)**

**Position:** 130

**Loop:** NM1 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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | The load profile is made up of the following codes, with mandatory underscores between each: Profile Group and Segment Code, Weather Zone Code, Meter Data Type Code, Weather Sensitivity Code, TOU Schedule Code. The value shall correspond to an ERCOT-defined Load Profile that is published on the ERCOT website.  Only one REF~LO will be sent per transaction.  Create ESI ID Request: Required  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used  NM101 = MA (Meter Addition): Optional  NM101 = MX (Meter Exchange): Optional  NM101 = MR (Meter Removal): Not Used  NM101 = MQ (Meter Information): Required if only changing the Load Profile |
|  |  | REF~LO~RESLOWR\_WEST\_NIDR\_NWS\_NOTOUREF |

**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 | | | | | | | |
|  | | | | LO |  | Load Planning Number | | | | |
|  | | | | | | Load profile | | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/30** | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | |
|  | | | Load Profile | | | | | | | |

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

**Position:** 130

**Loop:** NM1 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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | There will only be one REF~MT segment for each NM1 loop.  If there are multiple meter types on this meter, only one REF~MT will be sent. It will contain the code COMBO. The specific meter types will be identified in REF03 for the attribute segments contained within this loop. For example, REF~IX~6.0~KHMON~TU^51. |
|  |  | Create ESI ID Request: Not Used  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used  This segment will not be provided in the NM1 loop for UNMETERED services.  NM101 = MA (Meter Addition): Required  NM101 = MX (Meter Exchange): Required  NM101 = MR (Meter Removal): Not Used  NM101 = MQ (Meter Information): Required when changing the Load Profile (REF~TD~REFLO) and Meter Information is known (NM108 = 32 and NM109 = 123456789 (Meter Number)).  Required when changing the Meter Multiplier (REF~TD~REFMT). |
|  |  | REF~MT~KHMON  REF~MT~COMBO |

**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 for billing purposes. "COMBO" is used for a meter that records more than one measurement. Valid values can be a combination of the following values:  Type of Consumption  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  Other Valid Codes  COMBO This code is used to indicate that the meter has multiple  measurements, e.g., one meter that measures both kWh and  Demand. | | | | | | | |

**Segment: REF Reference Identification (TDSP Rate Class)**

**Position:** 130

**Loop:** NM1 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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Create ESI ID Request: Not Used  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used  NM101 = MA (Meter Addition): Optional  NM101 = MX (Meter Exchange): Optional  NM101 = MR (Meter Removal): Not Used  NM101 = MQ (Meter Information): Required if only changing the Rate Class |
|  |  | REF~NH~RS1 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code qualifying the Reference Identification | | | | | | | |
|  | | | | NH |  | Rate Card Number | | | | |
|  | | | | | | TDSP rate class or tariff | | | |
| **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 | | | | | | | |
|  | | | TDSP Rate Class or Tariff | | | | | | | |

**Segment: REF Reference Identification (TDSP Rate Subclass)**

**Position:** 130

**Loop:** NM1 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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Create ESI ID Request: Not Used  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used  NM101 = MA (Meter Addition): Optional  NM101 = MX (Meter Exchange): Optional  NM101 = MR (Meter Removal): Not Used  NM101 = MQ (Meter Information): Required if only changing the Rate Subclass |
|  |  | REF~PR~123 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code qualifying the Reference Identification | | | | | | | |
|  | | | | PR |  | Price Quote Number | | | | |
|  | | | | | | TDSP Rate Subclass - Used to provide further classification of a rate. | | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/30** | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | |
|  | | | TDSP Rate Subclass | | | | | | | |

**Segment: REF Reference Identification (Start Meter Read)**

**Position:** 130

**Loop:** NM1 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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | There will be one REF~Q2 segment for each applicable Meter Type, creating the potential for more than one REF~Q2 segment per NM1 Loop.  For instance, if the meter has multiple types, and therefore the REF~MT segment is REF~MT~COMBO, there may be multiple REF~Q2 segments, one to indicate the start read for each meter type that has dials. For example,  NM1~MQ~3~~~~~~32~1234568MG  REF~MT~COMBO  REF~Q2~12345~KHMON~TU^51  REF~Q2~12555~KHMON~TU^41 |
|  |  | Create ESI ID Request: Not Used  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used  NM101 = MA (Meter Addition): Required when adding meters. Not required when adding unmetered service devices.  NM101 = MX (Meter Exchange): Required  NM101 = MR (Meter Removal): Not Used  NM101 = MQ (Meter Information): Not Used |
|  |  | REF~Q2~12345~KHMON~TU^51 |

**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 | | | | | | | |
|  | | | | Q2 |  | Starting Package Number | | | | |
|  | | | | | | Start Meter Read | | | |
| **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 | | | | | | | |
|  | | | Start Meter Read for new meter | | | | | | | |
| **Must Use** | **REF03** | **352** | **Description** | | | | **X** |  | **AN 1/80** | | |
|  | | | A free-form description to clarify the related data elements and their content | | | | | | | |
|  | | | Meter Type (see REF~MT for valid codes). "COMBO" is not a valid code for this element. | | | | | | | |
| **Must Use** | **REF04** | **C040** | **Reference Identifier** | | | | **O** |  |  | | |
|  | | | To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier | | | | | | | |
|  | | | Note that this is a composite data element. Populate C04001 and C04002. | | | | | | | |
| **Must Use** | **C04001** | **128** | **Reference Identification Qualifier** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code qualifying the Reference Identification | | | | | | | |
|  | | | | TU |  | Trial Location Code | | | | |
|  | | | | | | Time of Use | | | |
| **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 | | | | | | | |
|  | | | | 41 |  | Off Peak | | | | |
|  | | | | 42 |  | On Peak | | | | |
|  | | | | 43 |  | Intermediate Peak | | | | |
|  | | | | 51 |  | Totalizer | | | | |
|  | | | | | | Totalizer/Total/Max (Demand) | | | |
|  | | | | 71 |  | Summer Super On Peak | | | | |

**Segment: REF Reference Identification (End Meter Read)**

**Position:** 130

**Loop:** NM1 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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | There will be one REF~Q3 segment for each applicable Meter Type, creating the potential for more than one REF~Q3 segment per NM1 Loop.  For instance, if the meter has multiple types, and therefore the REF~MT segment is REF~MT~COMBO, there may be multiple REF~Q3 segments, one to indicate the end read for each meter type that has dials. For example,  NM1~MQ~3~~~~~~32~1234568MG  REF~MT~COMBO  REF~Q3~99990~KHMON~TU^51  REF~Q3~54681~KHMON~TU^41 |
|  |  | Create ESI ID Request: Not Used  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used  NM101 = MA (Meter Addition): Not Used  NM101 = MX (Meter Exchange): Required  NM101 = MR (Meter Removal): Required when removing meters. Not required when removing unmetered service devices.  NM101 = MQ (Meter Information): Not Used |
|  |  | REF~Q3~56480~KHMON~TU^51 |

**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 | | | | | | | |
|  | | | | Q3 |  | Ending Package Number | | | | |
|  | | | | | | End Meter Read | | | |
| **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 | | | | | | | |
|  | | | End Meter Read for old meter | | | | | | | |
| **Must Use** | **REF03** | **352** | **Description** | | | | **X** |  | **AN 1/80** | | |
|  | | | A free-form description to clarify the related data elements and their content | | | | | | | |
|  | | | Meter Type (see REF~MT for valid codes). "COMBO" is not a valid code for this element. | | | | | | | |
| **Must Use** | **REF04** | **C040** | **Reference Identifier** | | | | **O** |  |  | | |
|  | | | To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier | | | | | | | |
|  | | | Note that this is a composite data element. Populate C04001 and C04002. | | | | | | | |
| **Must Use** | **C04001** | **128** | **Reference Identification Qualifier** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code qualifying the Reference Identification | | | | | | | |
|  | | | | TU |  | Trial Location Code | | | | |
|  | | | | | | Time of Use | | | |
| **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 | | | | | | | |
|  | | | | 41 |  | Off Peak | | | | |
|  | | | | 42 |  | On Peak | | | | |
|  | | | | 43 |  | Intermediate Peak | | | | |
|  | | | | 51 |  | Totalizer | | | | |
|  | | | | | | Totalizer/Total/Max (Demand) | | | |
|  | | | | 71 |  | Summer Super On Peak | | | | |

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

**Position:** 130

**Loop:** NM1 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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | This transaction allows multiple change requests on a single 814. If any single change request is invalid, the transaction is rejected in its entirety with appropriate reject reasons.  NM101 = MA (Meter Addition): Required if changing meter ownership  NM101 = MX (Meter Exchange): Required if changing meter ownership  NM101 = MR (Meter Removal): Not Used  NM101 = MQ (Meter Information): Required if changing meter ownership |
|  |  | Create ESI ID Request: Not Used  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used |
|  |  | REF~0P~3 |

**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 | | | | | | | |
|  | | | | 0P |  | Real Estate Owned Property Identifier | | | | |
|  | | | | | | Competitive Meter Ownership 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 | | | | | | | |
|  | | | | 1 |  | Customer | | | | |
|  | | | | 2 |  | CR | | | | |
|  | | | | 3 |  | Third Party | | | | |
|  | | | | 4 |  | TDSP | | | | |

**Segment: REF Reference Identification (Reason for Change)**

**Position:** 130

**Loop:** NM1 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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | More than one REF~TD may be present. |
|  |  | Create ESI ID Request: Not Used  Change ESI ID Information Request: Required change is at a meter level (NM1 Loop)  Retire ESI ID Request: Not Used  NM101 = MA (Meter Addition): Required if including a change to Load Profile, TDSP Rate Class or Subclass, or Meter Cycle  NM101 = MX (Meter Exchange): Required if including a change to Load Profile, TDSP Rate Class or Subclass, or Meter Cycle  NM101 = MR (Meter Removal): Not Used  NM101 = MQ (Meter Information): Required |
|  |  | REF~TD~REF4P |

**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 | | | | | | | |
|  | | | | TD |  | Reason for Change | | | | |
| **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 | | | | | | | |
|  | | | | DTM313 |  | Change Meter Cycle by Day of the Month | | | | |
|  | | | | REF0P |  | Change Meter Owner | | | | |
|  | | | | REF4P |  | Change Meter Multiplier | | | | |
|  | | | | REFAV |  | Annual Load Profile change | | | | |
|  | | | | | | Code used to indicate that the load profile (REF~LO) has changed. Used only for the annual load profile changes. | | | |
|  | | | | REFIX |  | Change Number of Dials | | | | |
|  | | | | REFLO |  | Change Load Profile | | | | |
|  | | | | REFMSL |  | Change Metered Service Type | | | | |
|  | | | | REFMT |  | Change Meter Type | | | | |
|  | | | | REFNH |  | Change TDSP Rate Class | | | | |
|  | | | | REFPR |  | Change TDSP Rate Subclass | | | | |
|  | | | | REFPRT |  | Change Unmetered Service Type | | | | |
|  | | | | REFTZ |  | Change Meter Cycle | | | | |

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

**Position:** 130

**Loop:** NM1 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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | There will be one REF~PRT segment for each applicable Unmetered Service Meter Type, creating the potential for more than one REF~PRT segment per NM1 Loop.  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.) |
|  |  | Create ESI ID Request: Optional (TDSP will provide if available)  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used  NM101 = MA (Unmetered Device Addition): Optional  NM101 = MX: Not Used  NM101 = MR (Unmetered Device Removal): Required  NM101 = MQ: Optional |
|  |  | REF~PRT~MV~750~QQ^100  REF~PRT~SD~400 Company Owned~QQ^20  REF~PRT~MV~400 Customer Owned~QQ^15  REF~PRT~MV~Third party maintained facilities~QQ^100 |

**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 Unmetered | | | | |
|  | | | | PA |  | Power Analog Node | | | | |
|  | | | | PB |  | Phone Booth | | | | |
|  | | | | PO |  | Phone Outlet | | | | |
|  | | | | PS |  | Pump Station | | | | |
|  | | | | RR |  | Rail Road Crossings | | | | |
|  | | | | SD |  | Sodium | | | | |
|  | | | | TL |  | Traffic Lights | | | | |
|  | | | | TR |  | Transceiver | | | | |
|  | | | | WF |  | Wi-Fi (Wireless Fidelity) | | | | |
|  | | | | WM |  | Wallpacked Mercury Vapor | | | | |
|  | | | | WS |  | Warning Sirens | | | | |
| **Dep** | **REF03** | **352** | **Description** | | | | **X** |  | **AN 1/80** | | |
|  | | | A free-form description to clarify the related data elements and their content | | | | | | | |
|  | | | Used to provide additional clarification information to the CR for the Unmetered Service when necessary. When applicable, used to provide the specific wattage/lumens for a light.  This free-form text can not contain any characters that may be used as element delimiters, sub-element delimiters, segment terminators, or field separators (This includes: asterisk \*, pipes |, tabs, linefeeds, carets ^, angle brackets < >, and tildes ~). | | | | | | | |
| **Must Use** | **REF04** | **C040** | **Reference Identifier** | | | | **O** |  |  | | |
|  | | | To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier | | | | | | | |
|  | | | Note that this is a composite data element. Populate C04001 and C04002. | | | | | | | |
| **Must Use** | **C04001** | **128** | **Reference Identification Qualifier** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code qualifying the Reference Identification | | | | | | | |
|  | | | | QQ |  | Unit Number | | | | |
|  | | | | | | Number of devices | | | |
| **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 | | | | | | | |
|  | | | Number of unmetered devices of this type. | | | | | | | |

**Segment: REF Reference Identification (Meter Reading Cycle)**

**Position:** 130

**Loop:** NM1 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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Meter cycles will be provided on the TDSP's website.  DTM~313 cannot be included if REF~TZ is present. |
|  |  | Create ESI ID Request: Required if meter is read on a cycle  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used  NM101 = MA (Meter Addition): Optional  NM101 = MX (Meter Exchange): Optional  NM101 = MR (Meter Removal): Not Used  NM101 = MQ (Meter Information): Required if only changing the Meter Reading Cycle |
|  |  | REF~TZ~15  REF~TZ~01 |

**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 | | | | | | | |
|  | | | | TZ |  | Total Cycle Number | | | | |
|  | | | | | | Cycle number when the meter will be read. | | | |
| **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 | | | | | | | |
|  | | | Metered: Meter Reading Cycle  Unmetered: Billing Cycle  Must be numeric and only two digits. | | | | | | | |

**Segment: DTM Date/Time Reference (Meter Cycle by Day of the Month)**

**Position:** 140

**Loop:** NM1 Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** >1

**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:** |  | Create ESI ID Request: Required if meter is read on a specific day of the month  Change ESI ID Information Request: Required if changing this item  Retire ESI ID Request: Not Used  REF~TZ cannot be included if DTM~313 is present.  NM101 = MA (Meter Addition): Optional  NM101 = MX (Meter Exchange): Optional  NM101 = MR (Meter Removal): Not Used  NM101 = MQ (Meter Information): Required if changing the Meter Cycle by Day of the Month |
|  |  | DTM~313~~~~DD~01 |

**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 | | | | | | | |
|  | | | | 313 |  | Cycle | | | | |
|  | | | | | | Meter Cycle by Day of the Month | | | |
| **Must Use** | **DTM05** | **1250** | **Date Time Period Format Qualifier** | | | | **X** |  | **ID 2/3** | | |
|  | | | Code indicating the date format, time format, or date and time format | | | | | | | |
|  | | | | DD |  | Day of Month in Numeric Format | | | | |
| **Must Use** | **DTM06** | **1251** | **Date Time Period** | | | | **X** |  | **AN 1/35** | | |
|  | | | Expression of a date, a time, or range of dates, times or dates and times | | | | | | | |
|  | | | Day of month that the meter will be read, in DD format (e.g., 01 - 28). | | | | | | | |

**Segment: NM1 Individual or Organizational Name (Special Needs Emergency Contact Name)**

**Position:** 080

**Loop:** NM1 Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To supply the full name of an individual or organizational entity

**Syntax Notes:** **1** If either NM108 or NM109 is present, then the other is required.

**2** If NM111 is present, then NM110 is required.

**Semantic Notes:** **1** NM102 qualifies NM103.

**Comments:** **1** NM110 and NM111 further define the type of entity in NM101.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Provided when available when adding information to the NM1~SC loop or if any of the information in the NM1~SC loop is changing for "CCC", "CRC", "CCCT" or "CRCT" status. |
|  |  | NM1~SC~C~~~~~~EC~SNOW, JOE RAY JR  NM1~SC~C~~~~~~EC~XYZ COMPANY |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **NM101** | **98** | **Entity Identifier Code** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code identifying an organizational entity, a physical location, property or an individual | | | | | | | |
|  | | | | SC |  | Store Class | | | | |
|  | | | | | | Special Needs Emergency Contact Name | | | |
| **Must Use** | **NM102** | **1065** | **Entity Type Qualifier** | | | | **M** |  | **ID 1/1** | | |
|  | | | Code qualifying the type of entity | | | | | | | |
|  | | | | C |  | Custodial | | | | |
|  | | | | | | Contact Name | | | |
| **Must Use** | **NM108** | **66** | **Identification Code Qualifier** | | | | **X** |  | **ID 1/2** | | |
|  | | | Code designating the system/method of code structure used for Identification Code (67) | | | | | | | |
|  | | | | EC |  | ARI Electronic Commerce Location ID Code | | | | |
|  | | | | | | Emergency Contact | | | |
| **Must Use** | **NM109** | **67** | **Identification Code** | | | | **X** |  | **AN 2/80** | | |
|  | | | Code identifying a party or other code | | | | | | | |
|  | | | The Customer Contact Name should be formatted as follows: Last Name, First Name.  Name fields shall contain commas only when associated with a valid Customer Name. (Last Name, First Name).  Name fields that are populated with only a comma(s) or any one character punctuation shall be considered invalid and will be rejected by ERCOT and the TDSP. | | | | | | | |

**Segment: N3 Address Information (Special Needs Emergency Contact Mailing Address)**

**Position:** 100

**Loop:** NM1 Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 2

**Purpose:** To specify the location of the named party

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Provided when available when adding information to the NM1~SC loop or if any of the information in the NM1~SC loop is changing for "CCC", "CRC", "CCCT" or "CRCT" status.  Only one N3 will be sent per NM1~SC loop. |
|  |  | N3~123 N MAIN ST~ANY ADDRESS OVERFLOW |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **N301** | **166** | **Address Information** | **M** |  | **AN 1/55** | |
|  | | | Address information | | | |
| **Dep** | **N302** | **166** | **Address Information** | **O** |  | **AN 1/55** | |
|  | | | Address information | | | |

**Segment: N4 Geographic Location (Special Needs Emergency Contact Mailing Address)**

**Position:** 110

**Loop:** NM1 Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify the geographic place of the named party

**Syntax Notes:** **1** If N406 is present, then N405 is required.

**Semantic Notes:**

**Comments:** **1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

**2** N402 is required only if city name (N401) is in the U.S. or Canada.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Provided when available when adding information to the NM1~SC loop or if any of the information in the NM1~SC loop is changing for "CCC", "CRC", "CCCT" or "CRCT" status. |
|  |  | N4~ANYTOWN~TX~78111  N4~ANYTOWN~TX~781110001  N4~MISSISSAUGA~ON~L4W4E4~CA |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Dep** | **N401** | **19** | **City Name** | | | | **O** |  | **AN 2/30** | |
|  | | | Free-form text for city name | | | | | | |
| **Dep** | **N402** | **156** | **State or Province Code** | | | | **O** |  | **ID 2/2** | |
|  | | | Code (Standard State/Province) as defined by appropriate government agency | | | | | | |
| **Must Use** | **N403** | **116** | **Postal Code** | | | | **O** |  | **ID 3/15** | |
|  | | | Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | | | | | | |
|  | | | Postal codes will only contain upper case letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded. | | | | | | |
| **Dep** | **N404** | **26** | **Country Code** | | | | **O** |  | **ID 2/3** | |
|  | | | Code identifying the country | | | | | | |
|  | | | For country codes not listed, please refer to ISO 3166 | | | | | | |
|  | | | Required if outside the United States. | | | | | | |
|  | | | | CA |  | Canada | | | |
|  | | | | CH |  | Switzerland | | | |
|  | | | | DE |  | Germany | | | |
|  | | | | ES |  | Spain | | | |
|  | | | | FR |  | France | | | |
|  | | | | GB |  | United Kingdom | | | |
|  | | | | IT |  | Italy | | | |
|  | | | | JP |  | Japan | | | |
|  | | | | MX |  | Mexico | | | |
|  | | | | PR |  | Puerto Rico | | | |
|  | | | | SE |  | Sweden | | | |

**Segment: PER Administrative Communications Contact (Special Needs Emergency Contact Telephone Numbers)**

**Position:** 120

**Loop:** NM1 Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** >1

**Purpose:** To identify a person or office to whom administrative communications should be directed

**Syntax Notes:** **1** If either PER03 or PER04 is present, then the other is required.

**2** If either PER05 or PER06 is present, then the other is required.

**3** If either PER07 or PER08 is present, then the other is required.

**Semantic Notes:**

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Provided when available when adding information to the NM1~SC loop or if any of the information in the NM1~SC loop is changing for "CCC", "CRC", "CCCT" or "CRCT" status. |
|  |  | PER~SP~~TE~8005551212  PER~SP~~TE~8005551212~OT~8005552121 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **PER01** | **366** | **Contact Function Code** | | | | **M** |  | **ID 2/2** | | |
|  | | | Code identifying the major duty or responsibility of the person or group named | | | | | | | |
|  | | | | SP |  | Special Program Contact | | | | |
|  | | | | | | Special Needs Contact Information | | | |
|  | **PER03** | **365** | **Communication Number Qualifier** | | | | **X** |  | **ID 2/2** | | |
|  | | | Code identifying the type of communication number | | | | | | | |
|  | | | | TE |  | Telephone | | | | |
|  | | | | | | Primary Telephone Number | | | |
| **Dep** | **PER04** | **364** | **Communication Number** | | | | **X** |  | **AN 1/80** | | |
|  | | | Complete communications number including country or area code when applicable | | | | | | | |
|  | | | Punctuation (spaces, dashes, symbols etc.) must be excluded | | | | | | | |
|  | **PER05** | **365** | **Communication Number Qualifier** | | | | **X** |  | **ID 2/2** | | |
|  | | | Code identifying the type of communication number | | | | | | | |
|  | | | | OT |  | Other Residential Telephone Number | | | | |
|  | | | | | | Other Telephone Number if available | | | |
| **Dep** | **PER06** | **364** | **Communication Number** | | | | **X** |  | **AN 1/80** | | |
|  | | | Complete communications number including country or area code when applicable | | | | | | | |
|  | | | Punctuation (spaces, dashes, symbols etc.) must be excluded. | | | | | | | |

**Segment: REF Reference Identification (Special Needs Emergency Contact Information Reason for Change)**

**Position:** 130

**Loop:** NM1 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:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | More than one REF~TD may be present. |
|  |  | Create ESI ID Request: Not Used  Change ESI ID Information Request: Required change is at the Special Needs Emergency Contact Name level (NM1 Loop)  Retire ESI ID Request: Not Used |
|  |  | REF~TD~NM1SC |

**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 | | | | | | |
|  | | | | TD |  | Reason for Change | | | |
| **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 | | | | | | |
|  | | | | NM1SC |  | Change Special Needs Emergency Contact Information | | | |

**Segment: SE Transaction Set Trailer**

**Position:** 150

**Loop:**

**Level:** Detail

**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~32~000000001 |

**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 | | | |