Connecticut

**Implementation**

**Guideline**

For

Electronic Data Interchange

**TRANSACTION SET**

**867**

**Historical Usage**

**Ver/Rel 004010**

#

|  |  |  |
| --- | --- | --- |
|  |  | Summary of Changes |
|  |  | * Initial Release
 |
| May 16, 2019 |  | * **Change Control #010** **-** Updated 867 Implementation Guide to bring it in line with the data that was being sent in production.
 |
| October 30, 2019Version 2.0 |  | * **Change Control #013** – Add Bill Cycle (REF\*BF). Also reformatted using the Foresight EDISIM software with additional clarification.
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| --- | --- | --- |
|  |  | Implementation Notes |
| Use of this document |  | * Upon receipt of the 814 Historical Usage Request, if Historical Usage is available, the 867 Historical Usage transaction will be sent.
* Historical Usage can be requested for an entity that is already a customer of the ESP
* With proper authorization, Historical Usage can be requested for any customer that has not restricted the release of their historical usage.
 |
| PTD Loops Definition |  | * For Historical Usage (HU) the following PTD loops will be sent:
	+ The PTD~PM loop is used to show the total usage for the account/service point. There will only be one PTD~PM loop per transaction.
 |
| Number of Months |  | * Eversource provides up to 12 months of Historical Usage
* United Illuminating provides up to 28 months of Historical Usage
 |
| Eversource Account Numbers (BA & SA) |  | * The Billing Account (“BA") is assigned to the customer and typically remains with the customer even when moving to another location within Eversource CT electric territory. The BA in the CT electric territory always begins with 51 and is 11 digits long.
* The Service Account ("SA"), also known to suppliers as a "meter number", is a number assigned to the electric location and remains with the location.
* A customer may have one BA and several SA’s.
	+ For example, a customer may have a BA of BA 51123456789 and have a home at 10 Main St West Hartford CT (SA 987654321) and a home at 2 Beach Rd Old Saybrook CT (SA 246813579).
* If an 814 HU Request is sent via EDI with a BA only, an 867 HU will be sent for each SA associated with the BA.
* If an 814 HU request is sent via EDI with a BA/SA, a response will be sent on that particular BA/SA only.
 |
| ICAP Tag |  | * The ICAP Tag is sent in the in the PSA segment in the header of the transaction. If the account does not have an ICAP value, “NO ICAP TAG” will be sent.
 |
| Net Metering |  | * If an account has generation:
	+ Eversource will send the net value if the account bills automatically in the billing system. If an account is manually billed outside of the billing system, only the consumption would be provided.
	+ United Illuminating will send the net value in the Historical Usage
 |
| Demand |  | * If demand is present on the account
 |
|  |  | * + Eversource will send the measured demand
	+ United Illuminating will send the billed demand
 |
|  |  |  |

**\*\*\* How to Read the Implementation Guide \*\*\***

 **Segment: N1 Name (Utility)**

This section is used to show the X12 Rules for this segment.

You must look at the gray boxes below for State Rules.

 **Position:** 080

 **Loop:** N1 Optional (Must Use)

 **Level:** Heading

 **Usage:** Optional (Must Use)

 **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.

This section is used to show the individual State’s Rules for implementation of this segment as well as an example.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | N1\*8S\*CONNECTICUT LIGHT & POWER\*1\*006917090N1\*8S\*UI\*1\*006917967 |

**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) |
|  | Utility |
| **Must Use** | **N102** | **93** | **Name** | **X** |  | **AN 1/60** |
|  | Free-form name |
|  | Utility 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 |
|  | Utility DUNS Number |

This column shows the State’s requirements for each data element.

This column shows the X12 attributes for each data element. If different, the State rules will show in the gray boxes.

M = Mandatory, O= Optional, X = Conditional

AN = Alphanumeric, N# = Implied Decimal

ID = Identification, R = Real

1/30 = Minimum 1, Maximum 30

These are X12 code descriptions, which often do not relate to the information we are trying to send. Unfortunately, X12 cannot keep up with our code needs so we often change the meanings of existing codes. See gray box for the State definition.

**867 Product Transfer and Resale Report**

**Functional Group ID=PT**

**Introduction:**

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

**Heading:**

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

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| M | 010 | ST | Transaction Set Header | M | 1 |  |  |  |  |  |  |  |  |
| M | 020 | BPT | Beginning Segment for Product Transfer and Resale | M | 1 |  |  |  |  |  |  |  |  |
|  | 078 | PSA | Partner Share Accounting  | O | 10 |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - N1 |  |  | 5 |  |  |  |  |  |  |  |
|  | 080 | N1 | Name  | O | 1 |  |  |  |  |  |  |  |  |
|  | 120 | REF | Reference Identification | O | 12 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Detail:**

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

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | LOOP ID - PTD |  |  | >1 |  |  |  |  |  |  |  |
| M | 010 | PTD | Product Transfer and Resale Detail | M | 1 |  |  |  |  |  |  |  |  |
|  | 030 | REF | Reference Identification | O | 20 |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - QTY |  |  | >1 |  |  |  |  |  |  |  |
|  | 110 | QTY | Quantity | O | 1 |  |  |  |  |  |  |  |  |
|  | 160 | MEA | Measurements | O | 40 |  |  |  |  |  |  |  |  |
|  | 210 | DTM | Date/Time Reference | O | 10 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Summary:**

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

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | LOOP ID - CTT |  |  | 1 |  |  |  |  |  |  |  |
|  | 010 | CTT | Transaction Totals | O | 1 |  | n1 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| M | 030 | SE | Transaction Set Trailer | M | 1 |  |  |  |  |  |  |  |  |

**Transaction Set Notes**

**1.** The number of line items (CTT01) is the accumulation of the number of LIN segments. If used, hash total (CTT02) is the sum of the value of quantities (QTY02) for each QTY segment.

 **Segment: ST Transaction Set Header**

 **Position:** 010

 **Loop:**

 **Level:** Heading

 **Usage:** Mandatory

 **Max Use:** 1

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

 **Syntax Notes:**

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | ST\*867\*1230001 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

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

 **Segment: BPT Beginning Segment for Product Transfer and Resale**

 **Position:** 020

 **Loop:**

 **Level:** Heading

 **Usage:** Mandatory

 **Max Use:** 1

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

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

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

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

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

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | BPT\*52\*0000000107877729\*20190620 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **BPT01** | **353** | **Transaction Set Purpose Code** | **M** |  | **ID 2/2** |
|  | Code identifying purpose of transaction set |
|   | 52 |  | Response to Historical Inquiry |
| **Must Use** | **BPT02** | **127** | **Reference Identification** | **O** |  | **AN 1/30** |
|  | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier |
|  | A unique transaction identification number assigned by the originator of request.  |
| **Must Use** | **BPT03** | **373** | **Date** | **M** |  | **DT 8/8** |
|  | Date expressed as CCYYMMDD |
|  | Transaction Creation Date |

 **Segment: PSA Partner Share Accounting (ICAP Tag)**

 **Position:** 078

 **Loop:**

 **Level:** Heading

 **Usage:** Optional

 **Max Use:** 10

 **Purpose:** To communicate the percentage share of the project that a particular owner has to pay

 **Syntax Notes:** **1** If PSA05 is present, then PSA04 is required.

 **Semantic Notes:** **1** PSA04 is the amount of the total partner's share of gross charges for the property, if PSA05 is not used.

 **Comments:** **1** PSA03 is expressed as a decimal amount.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | RequiredIf a new account, Utility will provide a Class Average |
|  |  | PSA\*93\*ICAP TAG\*2.96PSA\*93\*NO ICAP TAG\*0 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **PSA01** | **66** | **Identification Code Qualifier** | **M** |  | **ID 1/2** |
|  | Code designating the system/method of code structure used for Identification Code (67) |
|   | 93 |  | Code assigned by the organization originating the transaction set |
|  | ICAP Tag |
| **Must Use** | **PSA02** | **67** | **Identification Code** | **M** |  | **AN 2/80** |
|  | Code identifying a party or other code |
|  | If the ICAP TAG is zero or greater use literal value "ICAP TAG".If the ICAP TAG field on the Application file is blank, then use the literal value "NO ICAP TAG". |
| **Must Use** | **PSA03** | **826** | **Owners Share** | **M** |  | **R 1/8** |
|  | To indicate owner's share of the property |
|  | ICAP tag value; should never be blank. If the ICAP TAG Application file field is blank the default will be zero for this field, otherwise it will either be zero or greater. ICAP Tag values may be up to 5 places to the left of the decimal and 3 places to the right of the decimal. |

 **Segment: N1 Name (Utility)**

 **Position:** 080

 **Loop:** N1 Optional (Must Use)

 **Level:** Heading

 **Usage:** Optional (Must Use)

 **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\*CONNECTICUT LIGHT & POWER\*1\*006917090N1\*8S\*UI\*1\*006917967 |

**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) |
|  | Utility |
| **Must Use** | **N102** | **93** | **Name** | **X** |  | **AN 1/60** |
|  | Free-form name |
|  | Utility 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 |
|  | Utility DUNS Number |
|   | 006917090 |  | Eversource |
|   | 006917967 |  | United Illuminating |

 **Segment: REF Reference Identification (Utility Account Number)**

 **Position:** 120

 **Loop:** N1 Optional (Must Use)

 **Level:** Heading

 **Usage:** Optional (Must Use)

 **Max Use:** 12

 **Purpose:** To specify identifying information

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

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

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

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | REF\*12\*51123456789 (Eversource)REF\*12\*1234567890123 (United Illuminating) |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** |  | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|   | 12 |  | Billing Account |
|  | Utility Account 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 |
|  | Eversource: Bill Account Number (used in conjunction with the REF\*MG Service Account Number). 11 digits starting with 51.United Illuminating: "POD" identifier that shows under New Charges & Credits on the customer's bill. 13 digits. |

 **Segment: N1 Name (Supplier)**

 **Position:** 080

 **Loop:** N1 Optional (Must Use)

 **Level:** Heading

 **Usage:** Optional (Must Use)

 **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\*SJ\*SUPPLIER NAME\*1\*123456789N1\*SJ\*SUPPLIER NAME\*9\*123546789ABCD |

**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 |
|  | Supplier |
| **Must Use** | **N102** | **93** | **Name** | **X** |  | **AN 1/60** |
|  | Free-form name |
|  | Supplier 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 |
|  | Supplier DUNS or DUNS+4 Number |

 **Segment: REF Reference Identification (Supplier Account Number)**

 **Position:** 120

 **Loop:** N1 Optional (Must Use)

 **Level:** Heading

 **Usage:** Optional

 **Max Use:** 12

 **Purpose:** To specify identifying information

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

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

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

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required if provided on the Request |
|  |  | REF\*11\*1234567890 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** |  | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|   | 11 |  | Account Number |
|  | Supplier Account 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 |
|  | Supplier Account Number |

 **Segment: N1 Name (Customer 4 Character Name Key)**

 **Position:** 080

 **Loop:** N1 Optional (Must Use)

 **Level:** Heading

 **Usage:** Optional (Must Use)

 **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\*8R\*SMIT~N1\*8R\*D'AU~N1\*8R\*E &~N1\*8R\*G.B.~N1\*8R\*J C~N1\*8R\*THE~ |

**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 4 Character Name Key |
| **Must Use** | **N102** | **93** | **Name** | **X** |  | **AN 1/60** |
|  | Free-form name |
|  | Customer 4 Character Name Key found on the customer's bill. Note that if the Name Key may include special characters and spaces. For example, a company called The Store would have a name key of "THE". Trailing spaces are generally not sent in EDI. The Name Key appears on the customer's bill for both Eversource and United Illuminating. Residential: First 4 Characters of the Last NameCommercial: First 4 Characters of the Company Name |

 **Segment: PTD Product Transfer and Resale Detail**

 **Position:** 010

 **Loop:** PTD Mandatory

 **Level:** Detail

 **Usage:** Mandatory

 **Max Use:** 1

 **Purpose:** To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data

 **Syntax Notes:** **1** If either PTD02 or PTD03 is present, then the other is required.

 **2** If either PTD04 or PTD05 is present, then the other is required.

 **Semantic Notes:**

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | RequiredThe PTD loop conveys consumption information for one meter or register over a number of metering intervals. Accounts that have multiple meters or registers require multiple PTD loops.Eversource provides up to 12 months of Historical UsageUnited Illuminating provides up to 28 months of Historical Usage |
|  |  | PTD\*PM |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

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

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

 **Position:** 030

 **Loop:** PTD Mandatory

 **Level:** Detail

 **Usage:** Optional

 **Max Use:** 20

 **Purpose:** To specify identifying information

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

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

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

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | REF\*NH\*001REF\*NH\*M010001 |

**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 |
|  | Utility Rate Class |
| **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 |
|  | Utility Rate Class |

 **Segment: REF Reference Identification (Net Meter Indicator)**

 **Position:** 030

 **Loop:** PTD Mandatory

 **Level:** Detail

 **Usage:** Optional

 **Max Use:** 20

 **Purpose:** To specify identifying information

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

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

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

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Eversource: Required if Net Meter is present on the account, otherwise not usedUnited Illuminating: Not UsedNote: Net metering can be determined for United Illuminating accounts if the Utility Rate Class begins with M725, M730, M785, M790 or M795. |
|  |  | REF\*KY\*NETMETER |

**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 |
|   | KY |  | Site Specific Procedures, Terms, and Conditions |
|  | Net Meter 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 |
|   | NETMETER |  | Net Meter is present on the account |

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

 **Position:** 030

 **Loop:** PTD Mandatory

 **Level:** Detail

 **Usage:** Optional

 **Max Use:** 20

 **Purpose:** To specify identifying information

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

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

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

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | REF\*PRT\*A |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** |  | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|   | PRT |  | Product 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 |
|   | A |  | Apply to All Services |
|   | C |  | Combined Services |
|   | D |  | Metered Service Demand kWh |
|   | E |  | Metered Service kWh |
|   | H |  | Controlled Hot Water |
|   | L |  | Lighting Service |
|   | N |  | Non-Metered Service |
|   | T |  | Metered Service TOU |

 **Segment: REF Reference Identification (Service Account)**

 **Position:** 030

 **Loop:** PTD Mandatory

 **Level:** Detail

 **Usage:** Optional

 **Max Use:** 20

 **Purpose:** To specify identifying information

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

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

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

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Eversource: RequiredUnited Illuminating: Not Used |
|  |  | REF\*MG\*123456789 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | **M** |  | **ID 2/3** |
|  | Code qualifying the Reference Identification |
|   | MG |  | Meter Number |
|  | Service Account 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 |
|  | 9-digit Service Account Number (used in conjunction with the REF\*12 Bill Account Number) |

 **Segment: REF Reference Identification (Standard Point Location Code)**

 **Position:** 030

 **Loop:** PTD Mandatory

 **Level:** Detail

 **Usage:** Optional

 **Max Use:** 20

 **Purpose:** To specify identifying information

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

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

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

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | REF\*SPL\*\*CONNECTICUT |

**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 |
|  | Point at which the customer is connected to the transmission grid. |
| **Must Use** | **REF03** | **352** | **Description** | **X** |  | **AN 1/80** |
|  | A free-form description to clarify the related data elements and their content |
|   | CONNECTICUT |  |  |
|  |  |

 **Segment: REF Reference Identification (Current Generation Source)**

 **Position:** 030

 **Loop:** PTD Mandatory

 **Level:** Detail

 **Usage:** Optional

 **Max Use:** 20

 **Purpose:** To specify identifying information

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

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

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

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Eversource: RequiredUnited Illuminating: Not Used |
|  |  | REF\*T0\*C |

**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 |
|   | T0 |  | Dealer Type Identification |
|  | Identifies whether the customer is currently being serviced by the Utility or a Competitive Supplier |
| **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 |
|   | C |  | Competitive Supplier |
|   | S |  | Standard Offer |

 **Segment: REF Reference Identification (Bill Cycle)**

 **Position:** 030

 **Loop:** PTD Mandatory

 **Level:** Detail

 **Usage:** Optional

 **Max Use:** 20

 **Purpose:** To specify identifying information

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

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

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

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

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | REF\*BF\*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 |
|   | BF |  | Billing Center Identification |
|  | Bill Cycle |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X** |  | **AN 1/30** |
|  | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier |
|  | Bill Cycle |

 **Segment: QTY Quantity**

 **Position:** 110

 **Loop:** QTY Optional

 **Level:** Detail

 **Usage:** Optional

 **Max Use:** 1

 **Purpose:** To specify quantity information

 **Syntax Notes:** **1** At least one of QTY02 or QTY04 is required.

 **2** Only one of QTY02 or QTY04 may be present.

 **Semantic Notes:** **1** QTY04 is used when the quantity is non-numeric.

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | QTY\*QD\*\*\*NV |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **QTY01** | **673** | **Quantity Qualifier** | **M** |  | **ID 2/2** |
|  | Code specifying the type of quantity |
|   | QD |  | Quantity Delivered |
| **Must Use** | **QTY04** | **61** | **Free-Form Message** | **X** |  | **AN 1/30** |
|  | Free-form information |
|   | NV |  | No Value |

 **Segment: MEA Measurements**

 **Position:** 160

 **Loop:** QTY Optional

 **Level:** Detail

 **Usage:** Optional

 **Max Use:** 40

 **Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

 **Syntax Notes:** **1** At least one of MEA03 MEA05 MEA06 or MEA08 is required.

 **2** If MEA05 is present, then MEA04 is required.

 **3** If MEA06 is present, then MEA04 is required.

 **4** If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

 **5** Only one of MEA08 or MEA03 may be present.

 **Semantic Notes:** **1** MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

 **Comments:** **1** When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required - One MEA will be sent for each Unit of Measure |
|  |  | MEA\*\*\*4.2\*K1\*\*\*22MEA\*\*\*506\*KH\*\*\*22 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **MEA03** | **739** | **Measurement Value** | **X** |  | **R 1/20** |
|  | The value of the measurement |
|  | kWh, Demand (kW) or kVA value |
|  | **MEA04** | **C001** | **Composite Unit of Measure** | **X** |  |  |
|  | To identify a composite unit of measure (See Figures Appendix for examples of use) |
| **Must Use** | **C00101** | **355** | **Unit or Basis for Measurement Code** | **M** |  | **ID 2/2** |
|  | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken |
|   | K1 |  | Kilowatt Demand |
|  | kW |
|   | K4 |  | Kilovolt Amperes |
|  | kVA |
|   | KH |  | Kilowatt Hour |
|  | kWh |
| **Must Use** | **MEA07** | **935** | **Measurement Significance Code** | **O** |  | **ID 2/2** |
|  | Code used to benchmark, qualify or further define a measurement value |
|   | 22 |  | Actual |
|   | 46 |  | Estimated |

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

 **Position:** 210

 **Loop:** QTY 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 |
|  |  | DTM\*150\*\*\*\*20191215 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** |  | **ID 3/3** |
|  | Code specifying type of date or time, or both date and time |
|   | 150 |  | Service Period Start |
| **Must Use** | **DTM05** | **1250** | **Date Time Period Format Qualifier** | **X** |  | **ID 2/3** |
|  | Code indicating the date format, time format, or date and time format |
|   | D8 |  | Date Expressed in Format CCYYMMDD |
| **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 |
|  | Service Period Start Date |

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

 **Position:** 210

 **Loop:** QTY Optional

 **Level:** Detail

 **Usage:** Optional

 **Max Use:** 10

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

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

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

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

 **Semantic Notes:**

 **Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | DTM\*151\*\*\*\*20191215 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | **M** |  | **ID 3/3** |
|  | Code specifying type of date or time, or both date and time |
|   | 151 |  | Service Period End |
| **Must Use** | **DTM05** | **1250** | **Date Time Period Format Qualifier** | **X** |  | **ID 2/3** |
|  | Code indicating the date format, time format, or date and time format |
|   | D8 |  | Date Expressed in Format CCYYMMDD |
| **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 |
|  | Service Period End Date |

 **Segment: CTT Transaction Totals**

 **Position:** 010

 **Loop:** CTT Optional

 **Level:** Summary

 **Usage:** Optional

 **Max Use:** 1

 **Purpose:** To transmit a hash total for a specific element in the transaction set

 **Syntax Notes:** **1** If either CTT03 or CTT04 is present, then the other is required.

 **2** If either CTT05 or CTT06 is present, then the other is required.

 **Semantic Notes:**

 **Comments:** **1** This segment is intended to provide hash totals to validate transaction completeness and correctness.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | OptionalES sends the number of PTD LoopsUI not used |
|  |  | CTT\*1 |

**Data Element Summary**

 **Ref. Data**

 **Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **CTT01** | **354** | **Number of Line Items** | **M** |  | **N0 1/6** |
|  | Total number of line items in the transaction set |

 **Segment: SE Transaction Set Trailer**

 **Position:** 030

 **Loop:**

 **Level:** Summary

 **Usage:** Mandatory

 **Max Use:** 1

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

 **Syntax Notes:**

 **Semantic Notes:**

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

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | SE\*63\*0001 |

**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 |

|  |  |
| --- | --- |
| **Eversource** | **United Illuminating** |
| ST\*867\*0001BPT\*52\*3797829999\*20191025PSA\*93\*ICAP TAG\*0N1\*8S\*CONNECTICUT LIGHT & POWER\*1\*006917090 REF\*12\*51001234567N1\*SJ\*SUPPLIER\*9\*111111111ABCDN1\*8R\*PHOPTD\*PM REF\*NH\*116 REF\*PRT\*N REF\*MG\*123546789 REF\*SPL\*\*CONNECTICUT REF\*T0\*S REF\*BF\*20 QTY\*QD\*\*\*NV MEA\*\*\*156\*KH\*\*\*22 DTM\*151\*\*\*\*D8\*20190930 DTM\*150\*\*\*\*D8\*20190829 QTY\*QD\*\*\*NV MEA\*\*\*140\*KH\*\*\*22 DTM\*151\*\*\*\*D8\*20190829 DTM\*150\*\*\*\*D8\*20190730CTT\*1SE\*24\*0001 | ST\*867\*0001BPT\*52\*0000000112089999\*20191025PSA\*93\*ICAP TAG\*6.831N1\*8S\*UNITED ILLUMINATING\*1\*006917967 REF\*12\*2640012345670N1\*SJ\*SUPPLIER\*1\*222222222N1\*8R\*WALLPTD\*PM REF\*NH\*M420112 REF\*PRT\*A REF\*SPL\*\*CONNECTICUT REF\*BF\*20 QTY\*QD\*\*\*NV MEA\*\*\*9\*K1\*\*\*22 MEA\*\*\*1527\*KH\*\*\*22 DTM\*150\*\*\*\*D8\*20190924 DTM\*151\*\*\*\*D8\*20191023 QTY\*QD\*\*\*NV MEA\*\*\*10\*K1\*\*\*22 MEA\*\*\*2079\*KH\*\*\*22 DTM\*150\*\*\*\*D8\*20190823 DTM\*151\*\*\*\*D8\*20190923SE\*23\*0001 |