Connecticut

**Implementation**

**Guideline**

For

Electronic Data Interchange

**TRANSACTION SET**

**810**

**Invoice**

**Ver/Rel 004010**

# 

|  |  |  |
| --- | --- | --- |
|  |  | Summary of Changes |
|  |  | * Initial Release. |
| July 15, 2019 |  | * **Change Control # 008**: Added new segments/elements for Class of Contract/IRA Identifier (REF\*CE), Next Cycle Rate (REF\*PL), Rate Term (REF\*TC), Rate Expiration Date (DTM\*036), Variable Indicator (REF03 of REF\*PR) and Cancellation Fee (PAM\*\*\*\*EN). |
| October 30, 2019  Version 2.0 |  | * **Change Control #011** – Update Implementation Guide to revised format, including additional notes and clarification of requirements. |
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|  |  | Implementation Notes |
| 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). * 810s will always be sent at the BA/SA Level regardless of how the supplier enrolled the account. |
| Net Metering |  | * If an account has generation:   + Eversource will send the net value or zero for excess generation 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 in the 810 and the supplier would receive a notification via Email of the generation.   + United Illuminating will send the net value or zero for excess generation 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 |
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**\*\*\* 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\*006917090  N1\*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.

**810 Invoice**

**Functional Group ID=IN**

**Introduction:**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

**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 | BIG | Beginning Segment for Invoice | M | 1 |  |  |  |  |  |  |  |  |
|  | 050 | REF | Reference Identification | O | 12 |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - N1 |  |  | 200 |  |  |  |  |  |  |  |
|  | 070 | N1 | Name | O | 1 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 140 | DTM | Date/Time Reference | O | 10 |  |  |  |  |  |  |  |  |
|  | 214 | PAM | Period Amount | O | >1 |  |  |  |  |  |  |  |  |

**Detail:**

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

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | LOOP ID - IT1 |  |  | 200000 |  |  |  |  |  |  |  |
|  | 010 | IT1 | Baseline Item Data (Invoice) | O | 1 |  |  |  |  |  |  |  |  |
|  | 040 | TXI | Tax Information | O | 10 |  |  |  |  |  |  |  |  |
|  | 059 | MEA | Measurements | O | 40 |  |  |  |  |  |  |  |  |
|  | 120 | REF | Reference Identification | O | >1 |  |  |  |  |  |  |  |  |
|  | 150 | DTM | Date/Time Reference | O | 10 |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - SLN |  |  | 1000 |  |  |  |  |  |  |  |
|  | 200 | SLN | Subline Item Detail | O | 1 |  |  |  |  |  |  |  |  |
|  | 230 | SAC | Service, Promotion, Allowance, or Charge Information | O | 25 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Summary:**

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

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| M | 010 | TDS | Total Monetary Value Summary | M | 1 |  |  |  |  |  |  |  |  |
|  | 070 | CTT | Transaction Totals | O | 1 |  | n1 |  |  |  |  |  |  |
| M | 080 | SE | Transaction Set Trailer | M | 1 |  |  |  |  |  |  |  |  |

**Transaction Set Notes**

**1.** Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 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\*810\*0001 |

**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 | | | | | | |
|  | | | | 810 |  | Invoice | | | |
| **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: BIG Beginning Segment for Invoice**

**Position:** 020

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

**Syntax Notes:**

**Semantic Notes:** **1** BIG01 is the invoice issue date.

**2** BIG03 is the date assigned by the purchaser to purchase order.

**3** BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

**Comments:** **1** BIG07 is used only to further define the type of invoice when needed.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | BIG\*20190821\*20190821011315610000\*\*\*\*\*BD |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **BIG01** | **373** | **Date** | | | | **M** |  | **DT 8/8** | |
|  | | | Date expressed as CCYYMMDD | | | | | | |
|  | | | Date File Translated | | | | | | |
| **Must Use** | **BIG02** | **76** | **Invoice Number** | | | | **M** |  | **AN 1/22** | |
|  | | | Identifying number assigned by issuer | | | | | | |
|  | | | Unique Transaction Reference Number | | | | | | |
| **Must Use** | **BIG07** | **640** | **Transaction Type Code** | | | | **O** |  | **ID 2/2** | |
|  | | | Code specifying the type of transaction | | | | | | |
|  | | | | BD |  | Statement of Balance Due | | | |

**Segment: REF Reference Identification (Activity Code)**

**Position:** 050

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 12

**Purpose:** To specify identifying information

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

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

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

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

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | REF\*BE\*0 |

**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 | | | | | | | |
|  | | | | BE |  | Business Activity | | | | |
| **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 | | | | | | | |
|  | | | | 0 |  | Normal On Cycle Bill | | | | |
|  | | | | 1 |  | Cancellation | | | | |
|  | | | | 2 |  | Manual Bill | | | | |
|  | | | | 3 |  | Final Bill | | | | |
|  | | | | 4 |  | Off Cycle Bill | | | | |
|  | | | | | | Eversource Only | | | |
|  | | | | 6 |  | Estimated On Cycle Bill | | | | |
|  | | | | 7 |  | Estimated Off Cycle Bill | | | | |
|  | | | | | | Eversource Only | | | |

**Segment: REF Reference Identification (Billing Option)**

**Position:** 050

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 12

**Purpose:** To specify identifying information

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

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

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

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

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | REF\*BLT\*LDC |

**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 | | | | | | | |
|  | | | | BLT |  | Billing Type | | | | |
|  | | | | | | Identifies whether the bill is consolidated by the Utility or if each party will render their own bill. | | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/30** | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | |
|  | | | | DUAL |  | Dual Billing | | | | |
|  | | | | | | Also known as Pass-Through Billing. The Utility and Supplier each send their own bills to the customer. | | | |
|  | | | | LDC |  | Utility Consolidated Billing | | | | |
|  | | | | | | Also known as Complete or Rate Ready Billing. The Utility sends a consolidated bill to the customer including both Utility and Supplier charges. | | | |

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

**Position:** 050

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 12

**Purpose:** To specify identifying information

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

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

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

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

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | REF\*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 - Cycle number when the meter is scheduled to be read and the bill rendered to the customer. | | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/30** | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | |
|  | | | Bill Cycle Number (e.g., 01, 02, 03, etc.) | | | | | | | |

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

**Position:** 050

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 12

**Purpose:** To specify identifying information

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

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

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

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

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | Eversource: Billing Account (BA) - Used with REF\*MG to define unique Customer/Service Location  United Illuminating: POD ID |
|  |  | REF\*12\*1234567891011~  REF\*12\*51123456789~ |

**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-assigned Account Number for the customer | | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/30** | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | |
|  | | | Utility Account Number  UI - 13 digit POD ID  ES - 11 digit Bill Account Number including a 51 prefix | | | | | | | |

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

**Position:** 050

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 12

**Purpose:** To specify identifying information

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

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

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

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

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | REF\*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: REF Reference Identification (Supplier Class of Contract/Incidental Residential Account Identifier)**

**Position:** 050

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 12

**Purpose:** To specify identifying information

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

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

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

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

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Eversource: Future Implementation  United Illuminating: Required |
|  |  | Status of the Class of Contract/IRA Identifier Code in the Utility's system for the bill period at the time the 810 is created. |
|  |  | REF\*CE\*RES  REF\*CE\*BUS |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code qualifying the Reference Identification | | | | | | | |
|  | | | | CE |  | Class of Contract Code | | | | |
|  | | | | | | Type of contract the customer signed with the Supplier, used to identify Incidental Residential Accounts. | | | |
| **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 | | | | | | | |
|  | | | | BUS |  | Business Contract Signed with Customer | | | | |
|  | | | | | | Indicates Incidental Residential Account if customer is assigned a Residential rate class by the Electric Distribution Company, including: Eversource Rates 001, 005, 007 and United Illuminating Rates beginning with M010, M161, M725, M730. | | | |
|  | | | | RES |  | Residential Contract Signed with Customer | | | | |

**Segment: REF Reference Identification (Supplier Next Cycle Rate)**

**Position:** 050

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 12

**Purpose:** To specify identifying information

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

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

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

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

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Supplier's Next Cycle Rate printed on customer's bill for this bill period.  Eversource: Future Implementation  United Illuminating: Required when information is populated on the customer's bill.  Not Used when "Not Provided" is shown on customer's bill, non-residential or dual billed customers.  ES Next Cycle Rate Code format: 7 characters with implied decimal after the first position (e.g., 0084900 = $0.0849).  UI Next Cycle Rate Code format: 3 characters followed by a space then 3 characters (e.g., XXX 123). |
|  |  | REF\*PL\*0084900  REF\*PL\*XXX 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 | | | | | | | |
|  | | | | PL |  | Price List Number | | | | |
|  | | | | | | Supplier Next Cycle 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 | | | | | | | |
|  | | | Supplier Next Cycle Rate | | | | | | | |

**Segment: REF Reference Identification (Supplier Rate Term)**

**Position:** 050

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 12

**Purpose:** To specify identifying information

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

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

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

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

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Supplier's Rate Term printed on customer's bill for this bill period.  Eversource: Future Implementation  United Illuminating: Required when information is populated on the customer's bill.  Not Used when "Not Provided" is shown on customer's bill, or for non-residential or dual billed customers. |
|  |  | REF\*TC\*4 |

**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 | | | | | | | |
|  | | | | TC |  | Vendor Terms | | | | |
|  | | | | | | Supplier Rate Term | | | |
| **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 | | | | | | | |
|  | | | Length of the supplier rate, expressed in number of months. | | | | | | | |

**Segment: N1 Name (Utility)**

**Position:** 070

**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\*CONNECTICUT LIGHT & POWER\*1\*006917090  N1\*8S\*UNITED ILLUMINATING COMPANY\*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: N1 Name (Supplier)**

**Position:** 070

**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\*SJ\*SUPPLIER NAME\*1\*123546789  N1\*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: DTM Date/Time Reference (Billing Date)**

**Position:** 140

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 10

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

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

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

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

**Semantic Notes:**

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | DTM\*434\*\*\*\*D8\*20191010 |

**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 | | | | | | | |
|  | | | | 434 |  | Statement | | | | |
|  | | | | | | Billing Date | | | |
| **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 | | | | | | | |
|  | | | Billing Date | | | | | | | |

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

**Position:** 140

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 10

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

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

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

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

**Semantic Notes:**

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Eversource: Future Implementation  United Illuminating: Required when information is populated on the customer's bill.  Not Used when "Not Provided" is shown on customer's bill or for non-residential or dual billed customers. |
|  |  | DTM\*036\*\*\*\*CM\*201912 |

**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 | | | | |
|  | | | | | | Rate Expiration Year and Month printed on customer's bill for this bill period. | | | |
| **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 | | | | | | | |
|  | | | | CM |  | Date in Format CCYYMM | | | | |
| **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 | | | | | | | |
|  | | | Rate Expiration Year and Month printed on customer's bill for this bill period. | | | | | | | |

**Segment: PAM Period Amount (Supplier Cancellation Fee)**

**Position:** 214

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** >1

**Purpose:** To indicate a quantity, and/or amount for an identified period

**Syntax Notes:** **1** If any of PAM01 PAM02 or PAM03 is present, then all are required.

**2** At least one of PAM02 PAM05 or PAM14 is required.

**3** If either PAM04 or PAM05 is present, then the other is required.

**4** If either PAM06 or PAM07 is present, then the other is required.

**5** If PAM07 is present, then at least one of PAM08 or PAM09 is required.

**6** If PAM07 is present, then PAM06 is required.

**7** If PAM08 is present, then PAM07 is required.

**8** If PAM09 is present, then PAM07 is required.

**9** If PAM10 is present, then at least one of PAM11 or PAM12 is required.

**10** If PAM11 is present, then PAM10 is required.

**11** If either PAM13 or PAM14 is present, then the other is required.

**Semantic Notes:** **1** PAM10, PAM11, or PAM12 are used when two dates are required.

**2** PAM15 indicates whether the monetary amount identified in PAM05 is a net or gross value. A "Y" indicates amount is a gross value; an "N" indicates amount is a net value.

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Eversource: Future Implementation  United Illuminating: Required when information is populated on the customer's bill.  Not Used when "Not Provided" is shown on customer's bill or for non-residential or dual billed customers. |
|  |  | PAM\*\*\*\*EN\*0  PAM\*\*\*\*EN\*50 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **PAM04** | **522** | **Amount Qualifier Code** | | | | **X** |  | **ID 1/3** | | |
|  | | | Code to qualify amount | | | | | | | |
|  | | | | EN |  | Cancellation Fee | | | | |
|  | | | | | | Cancellation Fee printed on customer's bill for this bill period. | | | |
| **Must Use** | **PAM05** | **782** | **Monetary Amount** | | | | **X** |  | **R 1/18** | | |
|  | | | Monetary amount | | | | | | | |
|  | | | Cancellation Fee printed on customer's bill for this bill period. | | | | | | | |

**Segment: IT1 Baseline Item Data (Invoice)**

**Position:** 010

**Loop:** IT1 Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify the basic and most frequently used line item data for the invoice and related transactions

**Syntax Notes:** **1** If any of IT102 IT103 or IT104 is present, then all are required.

**2** If either IT106 or IT107 is present, then the other is required.

**3** If either IT108 or IT109 is present, then the other is required.

**4** If either IT110 or IT111 is present, then the other is required.

**5** If either IT112 or IT113 is present, then the other is required.

**6** If either IT114 or IT115 is present, then the other is required.

**7** If either IT116 or IT117 is present, then the other is required.

**8** If either IT118 or IT119 is present, then the other is required.

**9** If either IT120 or IT121 is present, then the other is required.

**10** If either IT122 or IT123 is present, then the other is required.

**11** If either IT124 or IT125 is present, then the other is required.

**Semantic Notes:** **1** IT101 is the purchase order line item identification.

**Comments:** **1** Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.

**2** IT106 through IT125 provide for ten 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 |
|  |  | The typical usage of the IT1 entails including all usage and charges attributed to one meter, in this case, the IT1 loop is qualified with "METER" in the IT108/IT109 element pair. In the case where some charges are not attributed to a specific meter, for example, basic customer charge or late payment charge the IT1 loop is qualified with "ACCOUNT" in the IT108/IT109 element pair. An 810 Usage and Billing may contain both "METER" and "ACCOUNT" IT1 loops.  A meter IT1 loop can be mapped differently, depending on whether Time-of-Use (TOU) or straight meter measurement is employed. With a TOU measurement, multiple MEA segments will convey the usage, with the MEA07 in each MEA providing the TOU classification. The IT1 loop for a non-TOU or straight meter measurement will contain a single MEA segment with no MEA07. |
|  |  | IT1\*1\*\*\*\*\*SV\*ELECTRIC\*C3\*ACCOUNT\*\*\*EQ\*NR  IT1\*1\*\*\*\*\*SV\*ELECTRIC\*C3\*METER\*MB\*NT\*EQ\*NR |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **IT101** | **350** | **Assigned Identification** | | | | **O** |  | **AN 1/20** | | |
|  | | | Alphanumeric characters assigned for differentiation within a transaction set | | | | | | | |
|  | | | Sequential Line Item Counter | | | | | | | |
| **Must Use** | **IT106** | **235** | **Product/Service ID Qualifier** | | | | **X** |  | **ID 2/2** | | |
|  | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | | | | |
|  | | | | SV |  | Service Rendered | | | | |
| **Must Use** | **IT107** | **234** | **Product/Service ID** | | | | **X** |  | **AN 1/48** | | |
|  | | | Identifying number for a product or service | | | | | | | |
|  | | | | ELECTRIC |  | Electric Service | | | | |
| **Must Use** | **IT108** | **235** | **Product/Service ID Qualifier** | | | | **X** |  | **ID 2/2** | | |
|  | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | | | | |
|  | | | | C3 |  | Classification | | | | |
| **Must Use** | **IT109** | **234** | **Product/Service ID** | | | | **X** |  | **AN 1/48** | | |
|  | | | Identifying number for a product or service | | | | | | | |
|  | | | | ACCOUNT |  | Account Model | | | | |
|  | | | | METER |  | Meter Model | | | | |
|  | | | | UNMET |  | Unmetered Services | | | | |
| **Dep** | **IT110** | **235** | **Product/Service ID Qualifier** | | | | **X** |  | **ID 2/2** | | |
|  | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | | | | |
|  | | | | MB |  | Measurement Type Code | | | | |
|  | | | | | | Required and only used when IT109 = METER | | | |
| **Dep** | **IT111** | **234** | **Product/Service ID** | | | | **X** |  | **AN 1/48** | | |
|  | | | Identifying number for a product or service | | | | | | | |
|  | | | Required and only used when IT109 = METER | | | | | | | |
|  | | | | NT |  | Non-Time-Of-Use measurement | | | | |
|  | | | | TOU |  | Time-Of-Use measurement | | | | |
| **Must Use** | **IT112** | **235** | **Product/Service ID Qualifier** | | | | **X** |  | **ID 2/2** | | |
|  | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | | | | |
|  | | | IT112 and IT113 are used to indicate that consumption will be provided but the actual meter readings will not be provided. Required if not providing reads. | | | | | | | |
|  | | | | EQ |  | Equipment Type | | | | |
| **Must Use** | **IT113** | **234** | **Product/Service ID** | | | | **X** |  | **AN 1/48** | | |
|  | | | Identifying number for a product or service | | | | | | | |
|  | | | | NR |  | No reads will be presented | | | | |

**Segment: TXI Tax Information (Sales Tax)**

**Position:** 040

**Loop:** IT1 Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 10

**Purpose:** To specify tax information

**Syntax Notes:** **1** At least one of TXI02 TXI03 or TXI06 is required.

**2** If either TXI04 or TXI05 is present, then the other is required.

**3** If TXI08 is present, then TXI03 is required.

**Semantic Notes:** **1** TXI02 is the monetary amount of the tax.

**2** TXI03 is the tax percent expressed as a decimal.

**3** TXI07 is a code indicating the relationship of the price or amount to the associated segment.

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Eversource: Required if customer was charged taxes for supplier charges  United Illuminating: Not Used - UI bills the taxes for both distribution and supply charges and remits all taxes to the State of Connecticut. |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **TXI01** | **963** | **Tax Type Code** | | | | **M** |  | **ID 2/2** | |
|  | | | Code specifying the type of tax | | | | | | |
|  | | | | SU |  | Sales and Use Tax | | | |
| **Must Use** | **TXI02** | **782** | **Monetary Amount** | | | | **X** |  | **R 1/18** | |
|  | | | Monetary amount | | | | | | |
| **Must Use** | **TXI07** | **662** | **Relationship Code** | | | | **O** |  | **ID 1/1** | |
|  | | | Code indicating the relationship between entities | | | | | | |
|  | | | | A |  | Add | | | |

**Segment: MEA Measurements (Usage)**

**Position:** 059

**Loop:** IT1 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 |
|  |  | Multiple usage MEA segments are allowed. Only 1 of each combination is allowed.  Valid Combinations include:  KH 51 Total Non-Time-Of-Use MEA\*\*\*8632\*KH\*\*\*51~  K1-62 Non-Time-Of-Use Demand MEA\*\*\*100.1\*K1\*\*\*62~  KH-42 Peak kWh MEA\*\*\*8632\*KH\*\*\*42~  K1-42 Peak kW Demand MEA\*\*\*100.1\*K1\*\*\*42~  K4-42 Peak kVA MEA\*\*\*100.1\*K4\*\*\*42~  KH-41 Offpeak kWh MEA\*\*\*4000\*KH\*\*\*41~  K1-41 Offpeak kW Demand MEA\*\*\*100.1\*K1\*\*\*41~  K4-41 Offpeak kVA MEA\*\*\*100.1\*K4\*\*\*41~  KH-66 Shoulder kWh MEA\*\*\*8632\*KH\*\*\*66~  K1-66 Shoulder kW Demand MEA\*\*\*100.1\*K1\*\*\*66~  K4-66 Shoulder kVA MEA\*\*\*100.1\*K4\*\*\*66~  UN Num Non-Metered Units MEA\*\*\*8632\*UN~ |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **MEA03** | **739** | **Measurement Value** | | | | **X** |  | **R 1/20** | | |
|  | | | The value of the measurement | | | | | | | |
|  | **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) | | | | |
|  | | | | UN |  | Unit | | | | |
|  | | | | | | Unmetered Services | | | |
| **Must Use** | **MEA07** | **935** | **Measurement Significance Code** | | | | **O** |  | **ID 2/2** | | |
|  | | | Code used to benchmark, qualify or further define a measurement value | | | | | | | |
|  | | | | 41 |  | Off Peak | | | | |
|  | | | | 42 |  | On Peak | | | | |
|  | | | | 51 |  | Total | | | | |
|  | | | | 62 |  | Current | | | | |
|  | | | | | | Non-Time-of-Use Demand | | | |
|  | | | | 66 |  | Sales | | | | |
|  | | | | | | Shoulder Peak | | | |

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

**Position:** 120

**Loop:** IT1 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:** |  | Eversource: Required when IT109=METER. Used with REF\*12 to define unique Customer / Service Location.  United Illuminating: Not Used |
|  |  | REF\*MG\*123546789 |

**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 Identifier (SA ID) | | | |
| **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 Identifier (SA ID) | | | | | | | |

**Segment: REF Reference Identification (Special Meter Configuration)**

**Position:** 120

**Loop:** IT1 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:** |  | Eversource: Sent if account has at least one generation meter  United Illuminating: Not Used - Net metered accounts can be identified by UI Utility Rate Class codes that begin with M725, M730, M785, M790 and 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 | | | | |
|  | | | | | | Special Meter Configuration | | | |
| **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 (Type of Service)**

**Position:** 120

**Loop:** IT1 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 when IT109 = METER or UNMET |
|  |  | 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 | | | | |
|  | | | | | | Type of Services on the Account | | | |
| **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 |  | All Services | | | | |
|  | | | | C |  | Combined Services | | | | |
|  | | | | D |  | Metered Service Demand | | | | |
|  | | | | E |  | Metered Service kWh | | | | |
|  | | | | H |  | Controlled Hot Water | | | | |
|  | | | | L |  | Lighting Service | | | | |
|  | | | | N |  | Non-Metered Service | | | | |
|  | | | | T |  | Metered Service TOU | | | | |

**Segment: REF Reference Identification (Supplier Rate)**

**Position:** 120

**Loop:** IT1 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 for Utility Consolidated Billing when IT109 = METER or UNMET |
|  |  | REF\*RB\*R01  REF\*RB\*CUS |

**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 | | | | | | | |
|  | | | | RB |  | Rate code number | | | | |
|  | | | | | | Supplier Rate Code | | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/30** | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | |
|  | | | Eversource: Predefined Supplier Specific Rate Code or "CUS"  United Illuminating: Predefined Supplier Specific Rate Code | | | | | | | |

**Segment: REF Reference Identification (Supplier Pricing Structure)**

**Position:** 120

**Loop:** IT1 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 for Utility Consolidated Billing (UCB) |
|  |  | Eversource Rate Format: 7 characters with an implied decimal after the first position. For example, 0084900 = $0.0849  United Illuminating Rate Format: 3 characters, space, 3 characters (codes must be previously established with the utility). For example, XXX 123 may represent a rate established at UI of $0.0849 |
|  |  | REF\*PR\*XXX 123\*NV  REF\*PR\*0084900\*V  REF\*PR\*0092500 |

**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 | | | | |
|  | | | | | | Supplier Pricing Structure | | | |
| **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 Pricing Structure | | | | | | | |
| **Dep** | **REF03** | **352** | **Description** | | | | **X** |  | **AN 1/80** | | |
|  | | | A free-form description to clarify the related data elements and their content | | | | | | | |
|  | | | Required when information is populated on the customer's bill.  Not Used for non-residential or dual billed customers. | | | | | | | |
|  | | | | NV |  | Not Variable (Fixed) | | | | |
|  | | | | V |  | Variable (Monthly) | | | | |

**Segment: REF Reference Identification (Primary Metering Indicator)**

**Position:** 120

**Loop:** IT1 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 if an Account has Primary Metering |
|  |  | United Illuminating calculates the discount and reflects it in the 810 transaction to the Supplier. No action is required by the supplier.  Eversource does not reflect the discount in the 810 transaction. If the 810 includes a Primary Metering Indicator of Y (REF\*QY\*Y) the Supplier is required to reduce the consumption provided by 2%.  Primary Metering Scenario:  Meter Constant of 3600  Meter Readings  1462 for September and 1489 for October (On-Peak)  3915 for September and 3980 for October (Off-Peak)  (1489 - 1462) \* 3600 = 97200 KWH On-Peak  (3980 - 3915) \* 3600 = 23400 KWH Off-Peak  Billing took off the 2% for the Primary meter and actually billed:  97200 \* .98 = 95256 KWH On-Peak  23400 \* .98 = 229320 KWH Off-Peak  Total kWh billed = 324576  In this example, the Supplier Price is $0.0748 for a final billed amount of $24278.28.  The actual EDI Reported the gross usage but the net billed amount:  On-Peak KWH: 97200  Off-Peak KWH: 234000  Billed Charges: 24278.28  The Primary Metering Indicator set to 'Y' should alert the suppliers to the need for the 2% adjustment for usage for both Utility Consolidated Billing and Dual Billing. |
|  |  | REF\*QY\*Y |

**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 | | | | | | | |
|  | | | | QY |  | Service Performed Code | | | | |
|  | | | | | | Primary Metering | | | |
| **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 | | | | |
|  | | | | Y |  | Yes | | | | |

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

**Position:** 150

**Loop:** IT1 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\*150\*\*\*\*D8\*20191115 |

**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:** 150

**Loop:** IT1 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\*\*\*\*D8\*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: SLN Subline Item Detail**

**Position:** 200

**Loop:** SLN Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify product subline detail item data

**Syntax Notes:** **1** If either SLN04 or SLN05 is present, then the other is required.

**2** If SLN07 is present, then SLN06 is required.

**3** If SLN08 is present, then SLN06 is required.

**4** If either SLN09 or SLN10 is present, then the other is required.

**5** If either SLN11 or SLN12 is present, then the other is required.

**6** If either SLN13 or SLN14 is present, then the other is required.

**7** If either SLN15 or SLN16 is present, then the other is required.

**8** If either SLN17 or SLN18 is present, then the other is required.

**9** If either SLN19 or SLN20 is present, then the other is required.

**10** If either SLN21 or SLN22 is present, then the other is required.

**11** If either SLN23 or SLN24 is present, then the other is required.

**12** If either SLN25 or SLN26 is present, then the other is required.

**13** If either SLN27 or SLN28 is present, then the other is required.

**Semantic Notes:** **1** SLN01 is the identifying number for the subline item.

**2** SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.

**3** SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.

**4** SLN08 is a code indicating the relationship of the price or amount to the associated segment.

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

**2** SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.

**3** SLN09 through SLN28 provide for ten 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 for Utility Consolidated Billing  Not Used for Dual Billing |
|  |  | Counter of SLN segments. Multiple charges/allowances require multiple SLN loops. SLN01 should increment 1 for each SLN/SAC combination. One SAC per SLN segment, so there will be an equal number of SLN and SAC segments. |
|  |  | SLN\*1\*\*A  SAC\*C\*\*EU\*ENC001\*9831  SLN\*2\*\*A  SAC\*C\*\*EU\*PRB001\*82252 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **SLN01** | **350** | **Assigned Identification** | | | | **M** |  | **AN 1/20** | |
|  | | | Alphanumeric characters assigned for differentiation within a transaction set | | | | | | |
|  | | | Used as a loop counter | | | | | | |
| **Must Use** | **SLN03** | **662** | **Relationship Code** | | | | **M** |  | **ID 1/1** | |
|  | | | Code indicating the relationship between entities | | | | | | |
|  | | | | A |  | Add | | | |

**Segment: SAC Service, Promotion, Allowance, or Charge Information**

**Position:** 230

**Loop:** SLN Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 25

**Purpose:** To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

**Syntax Notes:** **1** At least one of SAC02 or SAC03 is required.

**2** If either SAC03 or SAC04 is present, then the other is required.

**3** If either SAC06 or SAC07 is present, then the other is required.

**4** If either SAC09 or SAC10 is present, then the other is required.

**5** If SAC11 is present, then SAC10 is required.

**6** If SAC13 is present, then at least one of SAC02 or SAC04 is required.

**7** If SAC14 is present, then SAC13 is required.

**8** If SAC16 is present, then SAC15 is required.

**Semantic Notes:** **1** If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.

**2** SAC05 is the total amount for the service, promotion, allowance, or charge.

If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.

**3** SAC08 is the allowance or charge rate per unit.

**4** SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.

SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.

**5** SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.

**6** SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.

**7** SAC16 is used to identify the language being used in SAC15.

**Comments:** **1** SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.

**2** In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required for Utility Consolidated Billing  Not Used for Dual Billing |
|  |  | Identifies type of charge and amount. Each SLN loop will contain only one SAC. Multiple charges/allowances require multiple SLN loops. |
|  |  | SAC\*C\*\*EU\*BAS001\*995~ Basic Customer Charge  SAC\*C\*\*EU\*DMD001\*15000~ Demand Charge  SAC\*C\*\*EU\*ENC001\*7150~ Energy Charge  SAC\*C\*\*EU\*ENC003\*100399~ Off Peak Charge  SAC\*C\*\*EU\*ENC037\*103775~ On Peak Charge  SAC\*C\*\*EU\*ENC038\*103851~ Shoulder Peak Charge  SAC\*C\*\*EU\*LPC001\*400159~ Late Payment Charge  SAC\*C\*\*EU\*PRB001\*300215~ Arrears Balance |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **SAC01** | **248** | **Allowance or Charge Indicator** | | | | **M** |  | **ID 1/1** | |
|  | | | Code which indicates an allowance or charge for the service specified | | | | | | |
|  | | | | C |  | Charge | | | |
| **Must Use** | **SAC03** | **559** | **Agency Qualifier Code** | | | | **X** |  | **ID 2/2** | |
|  | | | Code identifying the agency assigning the code values | | | | | | |
|  | | | | EU |  | Electric Utilities | | | |
| **Must Use** | **SAC04** | **1301** | **Agency Service, Promotion, Allowance, or Charge Code** | | | | **X** |  | **AN 1/10** | |
|  | | | Agency maintained code identifying the service, promotion, allowance, or charge | | | | | | |
|  | | | | BAS001 |  | Basic Customer Charge | | | |
|  | | | | DMD001 |  | Demand Charge | | | |
|  | | | | ENC001 |  | Energy Charge | | | |
|  | | | | ENC003 |  | Off Peak Charge | | | |
|  | | | | ENC037 |  | On Peak Charge | | | |
|  | | | | ENC038 |  | Shoulder Peak Charge | | | |
|  | | | | LPC001 |  | Late Payment Charge | | | |
|  | | | | PRB001 |  | Arrears Balance | | | |
| **Must Use** | **SAC05** | **610** | **Amount** | | | | **O** |  | **N2 1/15** | |
|  | | | Monetary amount | | | | | | |
|  | | | The amount will be signed if it is negative. | | | | | | |

**Segment: TDS Total Monetary Value Summary**

**Position:** 010

**Loop:**

**Level:** Summary

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify the total invoice discounts and amounts

**Syntax Notes:**

**Semantic Notes:** **1** TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).

**2** TDS02 indicates the amount upon which the terms discount amount is calculated.

**3** TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).

**4** TDS04 indicates the total amount of terms discount.

**Comments:** **1** TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | TDS01 is the total amount due for this invoice and must equal the algebraic sum of the amounts in the TX102 and SAC05 segments. If this amount is negative send the minus sign. |
|  |  | TDS\*92083 Represents $920.83 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **TDS01** | **610** | **Amount** | **M** |  | **N2 1/15** | |
|  | | | Monetary amount | | | |
|  | | | Total Amount Due | | | |

**Segment: CTT Transaction Totals**

**Position:** 070

**Loop:**

**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:** |  | Optional |
|  |  | 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 | | | |
|  | | | The number of IT1 segments/loops | | | |

**Segment: SE Transaction Set Trailer**

**Position:** 080

**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\*27\*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 | | | |