

**Segment:** **ST** Transaction Set Header  
**Position:** 010  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the start of a transaction set and to assign a control number  
**Syntax Notes:**  
**Semantic Notes:** 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).  
**Comments:**  
**Notes:** Required  
 ST~814~000000001

**Data Element Summary**

|          | <b>Ref.</b> | <b>Data</b>   | <b>Attributes</b> |
|----------|-------------|---|-------------------|
|          | <b>Des.</b> | <b>Element Name</b>   |                   |
| Must Use | ST01        | 143 <b>Transaction Set Identifier Code</b>  | M ID 3/3          |
|          |             | Code uniquely identifying a Transaction Set   |                   |
|          |             | 814 General Request, Response or Confirmation   |                   |
| Must Use | ST02        | 329 <b>Transaction Set Control Number</b>   | M AN 4/9          |
|          |             | Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set |                   |

**Segment:** **BGN** Beginning Segment  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of a transaction set  
**Syntax Notes:** 1 If BGN05 is present, then BGN04 is required.  
**Semantic Notes:** 1 BGN02 is the transaction set reference number.  
 2 BGN03 is the transaction set date.  
 3 BGN04 is the transaction set time.  
 4 BGN05 is the transaction set time qualifier.  
 5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

**Comments:**

**Notes:**

Required  
 BGN~13~20091215123000001~20091215

**Data Element Summary**

|          | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>  | <u>Attributes</u> |
|----------|------------------|---------------------|--|-------------------|
| Must Use | BGN01            | 353                 | <b>Transaction Set Purpose Code</b><br>Code identifying purpose of transaction set<br>13 Request   | M ID 2/2          |
| Must Use | BGN02            | 127                 | <b>Reference Identification</b><br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier<br>A unique transaction identification number assigned by the originator of this transaction. This number must be unique over time.<br>Transaction Reference numbers will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded. | M AN 1/30         |
| Must Use | BGN03            | 373                 | <b>Date</b><br>Date expressed as CCYYMMDD<br>The transaction creation date - the date that the data was processed by the sender's application system.  | M DT 8/8          |

**Segment:** **N1** Name (Utility)  
**Position:** 040  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:** 1 At least one of N102 or N103 is required.  
 2 If either N103 or N104 is present, then the other is required.  
**Semantic Notes:**  
**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.  
 2 N105 and N106 further define the type of entity in N101.  
**Notes:** Required  
 N1~8S~UTILITY NAME~1~007909411

**Data Element Summary**

|          | <u>Ref.</u> | <u>Data</u>  | <u>Attributes</u> |
|----------|-------------|--|-------------------|
|          | <u>Des.</u> | <u>Element</u> <u>Name</u>   |                   |
| Must Use | N101        | 98 Entity Identifier Code<br>Code identifying an organizational entity, a physical location, property or an individual<br>8S Consumer Service Provider (CSP)<br>Utility  | M ID 2/3          |
| Must Use | N102        | 93 Name<br>Free-form name<br>Utility Name  | X AN 1/60         |
| Must Use | N103        | 66 Identification Code Qualifier<br>Code designating the system/method of code structure used for Identification Code (67)<br>1 D-U-N-S Number, Dun & Bradstreet<br>9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix | X ID 1/2          |
| Must Use | N104        | 67 Identification Code<br>Code identifying a party or other code<br>Utility D-U-N-S or D-U-N-S+4 Number  | X AN 2/80         |

**Segment:** **N1** Name (Retail Electric Supplier)  
**Position:** 040  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:** 1 At least one of N102 or N103 is required.  
 2 If either N103 or N104 is present, then the other is required.  
**Semantic Notes:**  
**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.  
 2 N105 and N106 further define the type of entity in N101.  
**Notes:** Required  
 N1~SJ~RES COMPANY~1~049612345

#### Data Element Summary

|          | <u>Ref.</u> | <u>Data</u>    | <u>Name</u>   | <u>Attributes</u> |
|----------|-------------|----------------|---|-------------------|
|          | <u>Des.</u> | <u>Element</u> | <u>Entity Identifier Code</u>   | <u>M ID 2/3</u>   |
| Must Use | N101        | 98             | Entity Identifier Code<br>Code identifying an organizational entity, a physical location, property or an individual<br>SJ Service Provider<br>Retail Electric Supplier (RES)  |                   |
| Must Use | N102        | 93             | Name<br>Free-form name<br>RES Name  | X AN 1/60         |
| Must Use | N103        | 66             | Identification Code Qualifier<br>Code designating the system/method of code structure used for Identification Code (67)<br>1 D-U-N-S Number, Dun & Bradstreet<br>9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix | X ID 1/2          |
| Must Use | N104        | 67             | Identification Code<br>Code identifying a party or other code<br>RES D-U-N-S or D-U-N-S+4 Number  | X AN 2/80         |

**Segment:** **N1** Name (Customer)  
**Position:** 040  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:** 1 At least one of N102 or N103 is required.  
 2 If either N103 or N104 is present, then the other is required.  
**Semantic Notes:**  
**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.  
 2 N105 and N106 further define the type of entity in N101.  
**Notes:** Optional  
 N1~8R~CUSTOMER NAME

**Data Element Summary**

|          | <b>Ref. Des.</b> | <b>Data Element</b> | <b>Name</b>   | <b>Attributes</b> |
|----------|------------------|---------------------|---|-------------------|
| Must Use | N101             | 98                  | Entity Identifier Code<br>Code identifying an organizational entity, a physical location, property or an individual<br>8R Consumer Service Provider (CSP) Customer<br>Customer Name | M ID 2/3          |
| Must Use | N102             | 93                  | Name<br>Free-form name<br>Customer Name   | X AN 1/60         |

|                        |   |
|------------------------|---|
| <b>Segment:</b>        | <b>LIN</b> Item Identification  |
| <b>Position:</b>       | 010   |
| <b>Loop:</b>           | LIN Optional  |
| <b>Level:</b>          | Detail  |
| <b>Usage:</b>          | Optional  |
| <b>Max Use:</b>        | 1   |
| <b>Purpose:</b>        | To specify basic item identification data   |
| <b>Syntax Notes:</b>   | <ol style="list-style-type: none"> <li>1 If either LIN04 or LIN05 is present, then the other is required.</li> <li>2 If either LIN06 or LIN07 is present, then the other is required.</li> <li>3 If either LIN08 or LIN09 is present, then the other is required.</li> <li>4 If either LIN10 or LIN11 is present, then the other is required.</li> <li>5 If either LIN12 or LIN13 is present, then the other is required.</li> <li>6 If either LIN14 or LIN15 is present, then the other is required.</li> <li>7 If either LIN16 or LIN17 is present, then the other is required.</li> <li>8 If either LIN18 or LIN19 is present, then the other is required.</li> <li>9 If either LIN20 or LIN21 is present, then the other is required.</li> <li>10 If either LIN22 or LIN23 is present, then the other is required.</li> <li>11 If either LIN24 or LIN25 is present, then the other is required.</li> <li>12 If either LIN26 or LIN27 is present, then the other is required.</li> <li>13 If either LIN28 or LIN29 is present, then the other is required.</li> <li>14 If either LIN30 or LIN31 is present, then the other is required.</li> </ol> |
| <b>Semantic Notes:</b> | 1 LIN01 is the line item identification   |
| <b>Comments:</b>       | <ol style="list-style-type: none"> <li>1 See the Data Dictionary for a complete list of IDs.</li> <li>2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item.<br/>For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.</li> </ol>   |
| <b>Notes:</b>          | <p>Required</p> <p>Ameren: One LIN Loop may be sent for each Service Point on an Account. ??<br/>ComEd: Only One LIN Loop may be sent per 814 transaction<br/>LIN~1~SH~EL~SH~CE</p>   |

#### Data Element Summary

|          | <u>Ref.</u> | <u>Data</u>  | <u>Attributes</u> |
|----------|-------------|--|-------------------|
|          | <u>Des.</u> | <u>Element</u> <u>Name</u>   |                   |
| Must Use | LIN01       | 350 <b>Assigned Identification</b>   | O AN 1/20         |
|          |             | Alphanumeric characters assigned for differentiation within a transaction set  |                   |
|          |             | On the Request, identifier supplied in this element either by itself or in conjunction with the BGN02 element from the BGN segment must uniquely identify each LIN request item over time. This number will be returned on the Response transaction in the same element. |                   |
| Must Use | LIN02       | 235 <b>Product/Service ID Qualifier</b>  | M ID 2/2          |
|          |             | Code identifying the type/source of the descriptive number used in Product/Service ID (234)  |                   |
|          |             | SH Service Requested   |                   |
| Must Use | LIN03       | 234 <b>Product/Service ID</b>  | M AN 1/48         |
|          |             | Identifying number for a product or service  |                   |
|          |             | EL Electric  |                   |
| Must Use | LIN04       | 235 <b>Product/Service ID Qualifier</b>  | X ID 2/2          |
|          |             | Code identifying the type/source of the descriptive number used in Product/Service ID (234)  |                   |
|          |             | SH Service Requested   |                   |
| Must Use | LIN05       | 234 <b>Product/Service ID</b>  | X AN 1/48         |
|          |             | Identifying number for a product or service  |                   |
|          |             | HI Historical Interval Usage   |                   |
|          |             | HU Historical Usage  |                   |

**Segment:** **ASI** Action or Status Indicator  
**Position:** 020  
**Loop:** LIN Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To indicate the action to be taken with the information provided or the status of the entity described

**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**  
**Notes:**

Required  
ASI~7~029

**Data Element Summary**

|          | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>   | <u>Attributes</u> |
|----------|------------------|---------------------|---|-------------------|
| Must Use | ASI01            | 306                 | <b>Action Code</b><br>Code indicating type of action<br>7 Request                                     | M ID 1/2          |
| Must Use | ASI02            | 875                 | <b>Maintenance Type Code</b><br>Code identifying the specific type of item maintenance<br>029 Inquiry | M ID 3/3          |

**Segment:** **REF** Reference Identification (RES Account Number)  
**Position:** 030  
**Loop:** LIN Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:**

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

- 1 REF04 contains data relating to the value cited in REF02.

**Comments:**  
**Notes:**

Optional  
REF~11~1234567890

**Data Element Summary**

|          | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>   | <u>Attributes</u> |
|----------|------------------|---------------------|---|-------------------|
| Must Use | REF01            | 128                 | Reference Identification Qualifier<br>Code qualifying the Reference Identification<br>11 Account Number<br>Retail Electric Supplier (RES) Account Number                      | M ID 2/3          |
| Must Use | REF02            | 127                 | Reference Identification<br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier<br>RES Account Number | X AN 1/30         |

**Segment:** **REF** Reference Identification (Utility Account Number)  
**Position:** 030  
**Loop:** LIN Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:**

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

- 1 REF04 contains data relating to the value cited in REF02.

**Comments:**  
**Notes:**

Required

Both utilities currently have 10 digit account numbers. All 10 digits, including leading zeros must be provided.  
 REF~12~0000445648

**Data Element Summary**

|          | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>   | <u>Attributes</u> |
|----------|------------------|---------------------|---|-------------------|
| Must Use | REF01            | 128                 | Reference Identification Qualifier<br>Code qualifying the Reference Identification<br>12 Billing Account<br>Utility Account Number  | M ID 2/3          |
| Must Use | REF02            | 127                 | Reference Identification<br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier<br>Utility Account Number | X AN 1/30         |

**Segment:** **REF** Reference Identification (Service Point Identifier)  
**Position:** 030  
**Loop:** LIN Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:**

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

- 1 REF04 contains data relating to the value cited in REF02.

**Comments:**  
**Notes:**

Ameren: Optional  
ComEd: Not Used

Ameren currently uses an 8-digit Service Point number. All 8 digits, including leading zeros must be provided.  
REF~LU~00034180

**Data Element Summary**

|          | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>   | <u>Attributes</u> |
|----------|------------------|---------------------|---|-------------------|
| Must Use | REF01            | 128                 | Reference Identification Qualifier  | M ID 2/3          |
|          |                  |                     | Code qualifying the Reference Identification  |                   |
|          |                  |                     | LU Location Number  |                   |
|          |                  |                     | Service Point Identifier  |                   |
| 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 |                   |
|          |                  |                     | Service Point Identifier  |                   |

**Segment:** **SE** Transaction Set Trailer  
**Position:** 150  
**Loop:**  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

**Syntax Notes:**

**Semantic Notes:**

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

**Notes:** Required

SE~13~000000001

#### Data Element Summary

|          | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>   | <u>Attributes</u> |
|----------|------------------|---------------------|---|-------------------|
| Must Use | SE01             | 96                  | Number of Included Segments<br>Total number of segments included in a transaction set including ST and SE segments  | M N0 1/10         |
| Must Use | SE02             | 329                 | Transaction Set Control Number<br>Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | M AN 4/9          |

## Examples:

Note if this were an Ameren example, the REF\*LU is an optional segment that may be added.

### Current:

ST\*814\*0001  
BGN\*13\*12012439600001\*20080904  
N1\*SJ\*SUPPLIER\*1\*011111111\*\*41  
N1\*8S\*COMMONWEALTH EDISON COMPANY\*1\*006929509\*\*40  
LIN\*1\*SH\*EL\*SH\*HI  
ASI\*7\*029  
REF\*12\*1310011005  
NM1\*MQ\*2\*CUSTOMER NAME  
REF\*MG\*078981746  
SE\*10\*0001

### New:

ST\*814\*0001  
BGN\*13\*12012439600001\*20080904  
N1\*SJ\*SUPPLIER\*1\*011111111  
N1\*8S\*COMMONWEALTH EDISON COMPANY\*1\*006929509  
N1\*8R\*CUSTOMER NAME  
LIN\*1\*SH\*EL\*SH\*HI  
ASI\*7\*029  
REF\*11\*0000111  
REF\*12\*1310011005  
SE\*11\*0001

### Questions:

- Is Meter Number required for validation on a Historical Usage Request?
- Ameren – How will Service Point be handled?