

**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 Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set	
		814 General Request, Response or Confirmation	
Must Use	ST02	329 Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

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

**Comments:**

**Notes:**

Required  
 BGN~11~20091216ABC0000000000000123456~20091216~~~20091215123000001

**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> Code identifying purpose of transaction set 11 Response	M ID 2/2
Must Use	BGN02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier A unique transaction identification number assigned by the originator of this transaction. This number must be unique over time. Transaction Reference numbers will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded.	M AN 1/30
Must Use	BGN03	373	<b>Date</b> Date expressed as CCYYMMDD The transaction creation date - the date that the data was processed by the sender's application system.	M DT 8/8
Must Use	BGN06	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Transaction Reference Number from the BGN02 of the Request Transaction.	O AN 1/30

**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 <b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) Utility	M ID 2/3
Must Use	N102	93 <b>Name</b> Free-form name Utility Name	X AN 1/60
Must Use	N103	66 <b>Identification Code Qualifier</b> 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	X ID 1/2
Must Use	N104	67 <b>Identification Code</b> Code identifying a party or other code 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 Code identifying an organizational entity, a physical location, property or an individual SJ Service Provider Retail Electric Supplier (RES)	
Must Use	N102	93	Name Free-form name RES Name	X AN 1/60
Must Use	N103	66	Identification Code Qualifier 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	X ID 1/2
Must Use	N104	67	Identification Code Code identifying a party or other code 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:** Required  
 N1~8R~CUSTOMER NAME

**Data Element Summary**

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

**Segment:** **PER Administrative Communications Contact**  
**Position:** 080  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To identify a person or office to whom administrative communications should be directed  
**Syntax Notes:**

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

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

**Notes:**  
 Utility to RES Accept Response: Optional  
 All other Responses: Not Used  
 PER~IC~CUSTOMER NAME~TE~6305551212

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PER01	366	<b>Contact Function Code</b> Code identifying the major duty or responsibility of the person or group named IC Information Contact	<b>M ID 2/2</b>
	PER02	93	<b>Name</b> Free-form name Customer Name	<b>O AN 1/60</b>
Must Use	PER03	365	<b>Communication Number Qualifier</b> Code identifying the type of communication number TE Telephone	<b>X ID 2/2</b>
Must Use	PER04	364	<b>Communication Number</b> Complete communications number including country or area code when applicable Customer Telephone Number	<b>X AN 1/80</b>

**Segment:** **LIN** Item Identification

**Position:** 010

**Loop:** LIN Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

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

**Syntax Notes:**

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

**Semantic Notes:**

**Comments:**

- 1 LIN01 is the line item identification
- 1 See the Data Dictionary for a complete list of IDs.
- 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item.  
For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

**Notes:** Required

Ameren: One LIN Loop may be sent for each Service Point on an Account. Please see Ameren documentation for which accounts may be dropped at the Service Point level. Mass Market accounts may only be dropped at an account level.

ComEd: Only One LIN Loop may be sent per 814 transaction  
LIN~1~SH~EL~SH~CE

#### 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 Assigned Identification	O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set	
		The identifier provided in the LIN01 of the Request Transaction.	
Must Use	LIN02	235 Product/Service ID Qualifier	M ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		SH Service Requested	
Must Use	LIN03	234 Product/Service ID	M AN 1/48
		Identifying number for a product or service	
		EL Electric	
Must Use	LIN04	235 Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		SH Service Requested	
Must Use	LIN05	234 Product/Service ID	X AN 1/48
		Identifying number for a product or service	
		CE Energy Services	
	LIN06	235 Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	

<b>LIN07</b>	<b>234</b>	Ameren: Optional		
		ComEd: Not Used		
		SH	Service Requested	
		<b>Product/Service ID</b>		<b>X AN 1/48</b>
		Identifying number for a product or service		
		Ameren: Optional		
		ComEd: Not Used		
		SW	Off Cycle Drop	
				Request for a special meter read for a customer to drop off cycle, i.e., not at the next, regularly scheduled meter read. DTM~MRR is required when requesting an off-cycle read.

**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~WQ~024

**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> Code indicating type of action U Reject WQ Accept	M ID 1/2
Must Use	ASI02	875	<b>Maintenance Type Code</b> Code identifying the specific type of item maintenance 024 Cancellation or Termination	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:**

RES to Utility - Optional  
 Utility to RES - Required if provided on the 814 Enrollment or 814 Change transactions.  
 REF~11~1234567890

**Data Element Summary**

Must Use	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 11 Account Number Retail Electric Supplier (RES) Account Number	M ID 2/3
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier 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 Code qualifying the Reference Identification 12 Billing Account Utility Account Number	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier 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 - Utility to RES - Required  
 Ameren - RES to Utility - Optional ???  
 ComEd - Not Used

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

Please see Ameren documentation for which accounts may be dropped at the Service Point level. Mass Market accounts may only be dropped at an account level.  
 REF~LU~00034180

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification LU Location Number Service Point Identifier	M ID 2/3
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Service Point Identifier	X AN 1/30

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

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

**Semantic Notes:**

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

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

Utility to RES Accept Response: Required if applicable  
 All Other Responses: Not Used  
 REF~1P~W09

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 1P Accessorial Status Code Status Reason Code	M ID 2/3
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier A13 Other - Provide Reason Text in REF03 W09 Special, off-cycle meter reading cannot be performed. Meter will be read on the normal, on-cycle read date	X AN 1/30
	REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content Reason Text	X AN 1/80

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

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

**Semantic Notes:**

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

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

Accept Response: Not Used  
 Reject Response: Required  
 REF~7G~A13~REJECTION REASON TEXT

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 7G Data Quality Reject Reason	M ID 2/3
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier 008 Account Exists But Is Not Active A13 Other - Provide Reason Text in REF03 A76 Account Not Found A76 is the only code that is valid from RES to Utility all other codes are only valid Utility to RES. ABN Duplicate Request Received API Required Information Missing	X AN 1/30
	REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content Additional Text Description	X AN 1/80

**Segment:** **DTM** Date/Time Reference (Service Period End Date)  
**Position:** 040  
**Loop:** LIN Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

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

**Notes:**  
 Utility to RES Accept Response: Required  
 All Other Responses: Not Used  
 DTM~151~20100530

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 151 Service Period End	M ID 3/3
Must Use	DTM02	373	Date Date expressed as CCYYMMDD Service Period End Date	X DT 8/8

**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 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 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

Samples: (Should include example with special meter read for drop).  
Note that the only difference between Ameren and ComEd is the REF\*LU.

RES to ComEd transaction with Accept

ST\*814\*0003  
BGN\*13\*200808070000001\*20080807\*\*\*1230000000000111259  
N1\*8S\*COMED\*1\*006929509  
N1\*SJ\*SUPPLIER\*1\*011111111  
N1\*8R\*CUSTOMER NAME  
LIN\*1\*SH\*EL\*SH\*CE  
ASI\*WQ\*024  
REF\*11\*123456  
REF\*12\*0312345624  
SE\*10\*0003

RES to Ameren transaction with Reject

ST\*814\*0003  
BGN\*13\*200808070000001\*20080807\*\*\*1230000000000111259  
N1\*8S\*AMEREN\*1\*006936017  
N1\*SJ\*SUPPLIER\*1\*011111111  
N1\*8R\*CUSTOMER NAME  
LIN\*1\*SH\*EL\*SH\*CE  
ASI\*U\*024  
REF\*7G\*A76  
REF\*11\*123456  
REF\*12\*0312345624  
REF\*LU\*12345678  
SE\*12\*0003

ComEd to RES transaction with Accept

ST\*814\*0003  
BGN\*13\*200808070000001\*20080807\*\*\*1230000000000111259  
N1\*8S\*COMED\*1\*006929509  
N1\*SJ\*SUPPLIER\*1\*011111111  
N1\*8R\*CUSTOMER NAME  
PER\*IC\*\*TE\*555551212  
LIN\*1\*SH\*EL\*SH\*CE  
ASI\*WQ\*024  
REF\*11\*123456  
REF\*12\*0312345624  
DTM\*151\*20080831  
SE\*12\*0003

Ameren to RES transaction with Reject

ST\*814\*0003  
BGN\*13\*200808070000001\*20080807\*\*\*1230000000000111259  
N1\*8S\*AMEREN\*1\*006936017  
N1\*SJ\*SUPPLIER\*1\*011111111  
N1\*8R\*CUSTOMER NAME  
PER\*IC\*\*TE\*555551212  
LIN\*1\*SH\*EL\*SH\*CE  
ASI\*U\*024  
REF\*7G\*A13\*REASON TEXT  
REF\*11\*123456  
REF\*12\*0312345624  
REF\*LU\*12345678  
DTM\*151\*20080831  
SE\*14\*0003