

Illinois

Implementation
Guide
For
Electronic
Data
Interchange

Transaction Set
ANSI ASC X12 Version 004010

814

Enrollment Response
Version 1.1

Summary of Changes

January 6, 2009
Version 1.0

- Initial Release.

October 24, 2009
Version 1.1

- Initial Release.
- **Change Control 003** – Update Implementation Notes section to explain the use of the term “MANUAL” in the BGN06 in the event that ComEd needs to send an enrollment response without a request.

Implementation Notes

Transaction Reference Numbers	<ul style="list-style-type: none"> On the Request, the Transaction Reference Number in the BGN02 must be unique over time. This number will be returned in the BGN06 of the Response transaction.
LIN01 Reference Numbers	<ul style="list-style-type: none"> On the Request, the identifier in the LIN01 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.
Definition of Mass Market Customers	<ul style="list-style-type: none"> Ameren Mass Market - Includes any account containing one or more of only the following types of service point: DS-1 (residential), DS-2 (small commercial < 150 kW) or DS-5 (lighting). ComEd Mass Market – Includes all residential and commercial customers under 100 kW.
Definition of Service Point	<ul style="list-style-type: none"> Ameren’s systems operate at a Service Point level. A service point consists of metered or unmetered load that is assigned to a specific Ameren rate. A service point containing metered load can have one or more meters associated with it. An Ameren account may have multiple electric service points associated with it. For Mass Market accounts, the RES is required to take all service points on the account that is being enrolled. For Non-Mass Market accounts, the RES may choose which Service Points to serve. It is important to follow the requirements in each Implementation Guide to differentiate when a Service Point Identifier may or may not be sent. ComEd operates at an Account Level only.
Implementation of Service Point for 814 Reinstatement (Ameren)	<ul style="list-style-type: none"> Ameren Mass Market Reinstatement <ul style="list-style-type: none"> The Service Point Identifier (NM1/REF*LU) will not be sent. Ameren Non-Mass Market Reinstatement <ul style="list-style-type: none"> The Service Point Identifier (NM1/REF*LU) will be sent on the Request transaction, and may optionally be included on the Response transaction.
Historical Interval Usage Requested Separately	<ul style="list-style-type: none"> The RES may request Historical Usage (HU) as a secondary service on the 814 Enrollment Request and the Utility will send the 867 Historical Usage transaction. If the RES wishes to request Historical Interval Usage (HI), the request must be sent in a separate 814 transaction. Please see the 814 Historical Usage Request implementation guideline. If the RES inadvertently requests HI as a secondary service on the Enrollment Request, the utility will process it as if the RES had requested HU.
Requested On Cycle Switch “no earlier than” Date	<ul style="list-style-type: none"> A RES may request that a switch occur at the next scheduled meter cycle after a particular date. If such a date is requested, it may not be more than 45 calendar days from the date the enrollment is processed by the Utility. The DTM~007 segment may be used by the RES to provide a date for the On Cycle switch. No special codes are used in the LIN segment. If no dates are provided, then the next valid meter cycle will be used.
Off Cycle Switch	<ul style="list-style-type: none"> Off Cycle Switches are not allowed for Mass Market Accounts. Off Cycle Switches for Non-Mass Market accounts in certain situations. It is important to review the tariffs to understand the rules.

ComEd Initiated
Enrollments

- On the 814 Enrollment Request, the DTM~MRR segment, in combination with the LIN code “SW” are used to indicate an Off Cycle Switch Request.
- ComEd has the ability to enroll a customer to a RES online in its system (without a DASR). This is used as a part of ComEd’s Emergency DASR process that is in place if a RES loses EDI capability for a period of time and will miss an enrollment window. ComEd may also use this to fix any errors in the enrollment process. In this case, ComEd will populate the BGN06 field with the word “MANUAL”. This will alert the RES to the fact that there was not an 814 enrollment request for them to match the response.

814 General Request, Response or Confirmation

Functional Group ID=**GE**

Introduction:

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

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BGN	Beginning Segment	M	1		
			LOOP ID - N1			>1	
	040	N1	Name	O	1		n1
	060	N3	Address Information	O	2		
	070	N4	Geographic Location	O	1		
	080	PER	Administrative Communications Contact	O	>1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - LIN			>1	
	010	LIN	Item Identification	O	1		
	020	ASI	Action or Status Indicator	O	1		
	030	REF	Reference Identification	O	>1		
	040	DTM	Date/Time Reference	O	>1		
	060	AMT	Monetary Amount	O	>1		
			LOOP ID - NM1			>1	
	080	NM1	Individual or Organizational Name	O	1		n2
	130	REF	Reference Identification	O	>1		
M	150	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The N1 loop is used to identify the transaction sender and receiver.
2. The NM1 loop is used to identify the parties associated with the individual line item (LIN), such as an individual consumer in a consolidated third party Consumer Service Provider transaction.

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

Comments:

Notes:

Required
ST~814~000000001

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
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~11~20091216-ABC.000001~20091216~~~20091215123000001

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	BGN01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 11 Response	M ID 2/2
Must Use	BGN02	127	Reference Identification 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), digits (0 to 9), dashes (-) and periods (.). Note that all other characters (spaces, underscores, etc.) must be excluded.	M AN 1/30
Must Use	BGN03	373	Date 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	Reference Identification 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. 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 8S Consumer Service Provider (CSP) Utility	M ID 2/3
Must Use	N102	93	Name Free-form name Utility 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 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

	Ref.	Data	Name	Attributes
	Des.	Element		
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)	M ID 2/3
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	M ID 2/3
			Customer Name	
Must Use	N102	93	Name Free-form name Customer Name	X AN 1/60

Segment: N3 Address Information (Service Address)
Position: 060
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes:

Accept Response: Required
 Reject Response: Not Used
 N3~3921 MAIN STREET

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
Must Use	N301	166	Address Information Address information	M AN 1/55
	N302	166	Address Information Address information	O AN 1/55

Segment: **N4** Geographic Location (Service Address)
Position: 070
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Accept Response: Required
Reject Response: Not Used
N4~ANYTOWN~IL~30012

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N401	19	City Name	Free-form text for city name	O AN 2/30
Must Use	N402	156	State or Province Code	Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
Must Use	N403	116	Postal Code	Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15

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: Accept Response: Required if available
 Reject Response: Not Used
 PER~IC~OPTIONAL NAME~TE~3125551212 x1234

Data Element Summary

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

Segment: **N1** Name (Billing Address)
Position: 040
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:

- 1 At least one of N102 or N103 is required.
- 2 If either N103 or N104 is present, then the other is required.

Semantic Notes:
Comments:

- 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
- 2 N105 and N106 further define the type of entity in N101.

Notes: Required if there is a Billing Address on the account that is different from the Service Address
 N1~BT~BILLING PARTY 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 BT Bill-to-Party	M ID 2/3
Must Use	N102	93	Name Free-form name Billing Party Name	X AN 1/60

Segment: N3 Address Information (Billing Address)
Position: 060
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes:

Required if there is a Billing Address on the account that is different from the Service Address
 N3~PO BOX 4881

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
Must Use	N301	166	Address Information Address information	M AN 1/55
	N302	166	Address Information Address information	O AN 1/55

Segment: **N4** Geographic Location (Billing Address)
Position: 070
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Required if there is a Billing Address on the account that is different from the Service Address
N4~ANYTOWN~IL~30012

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
Must Use	N401	19 City Name Free-form text for city name	O AN 2/30
Must Use	N402	156 State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
Must Use	N403	116 Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
	N404	26 Country Code Code identifying the country	O ID 2/3

Segment: **LIN** Item Identification
Position: 010
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:

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

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

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

Notes: Required - All 814 transactions will contain only one LIN Loop.

If the Enrollment is rejected, the Historical Usage Request will also be rejected.

The LIN of the Response will echo what was sent on the Request. The following examples are all inclusive.

LIN~1~SH~EL~SH~CE
Enrollment Response

LIN~1~SH~EL~SH~CE~SH~HU
Enrollment with Historical Summarized Usage Response

LIN~1~SH~EL~SH~CE~SH~SW
Enrollment with Off Cycle Read Response

LIN~1~SH~EL~SH~CE~SH~SW~SH~HU
LIN~1~SH~EL~SH~CE~SH~HU~SH~SW
Enrollment with Off Cycle Read and Historical Summarized Usage Response

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	LIN01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set The identifier provided in the LIN01 of the Request Transaction.	O AN 1/20
Must Use	LIN02	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested	M ID 2/2
Must Use	LIN03	234	Product/Service ID Identifying number for a product or service EL Electric	M AN 1/48
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)		
			SH Service Requested		
	LIN07	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
			HU Historical Usage		
			SW Off Cycle Switch		
	LIN08	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		
	LIN09	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
			HU Historical Usage		
			SW Off Cycle Switch		

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~021

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ASI01	306	Action Code Code indicating type of action U Reject WQ Accept	M ID 1/2
Must Use	ASI02	875	Maintenance Type Code Code identifying the specific type of item maintenance 021 Addition	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: Required if provided on the 814 Enrollment Request.
REF~11~1234567890

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 11 Account Number Retail Electric Supplier (RES) 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 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~NONPOR

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
Must Use	REF03	352	Description A free-form description to clarify the related data elements and their content This code indicates the current class of customer in regards to the POR Eligibility groups as of the time the transaction is sent. GROUPA Ameren or ComEd POR Eligibility Group A GROUPB Ameren or ComEd POR Eligibility Group B GROUPE ComEd POR Eligibility Group C NONPOR Account Not Eligible for POR (Ameren or ComEd)	X AN 1/80

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:

Accept Response: Required if applicable
 Reject Response: Not Used
 REF~1P~HUU

Data Element Summary

Ref.	Data	Element	Name	Attributes
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 1P Accessorial Status Code Status Reason Code	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 HUR Historical Usage Not Released HUU Historical Usage Unavailable W09 Off Cycle Meter Read cannot be performed. Meter will be read on the normal, on cycle read date.	X AN 1/30
REF03	352	Description	A free-form description to clarify the related data elements and their content Additional Text Description	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~A76~ACCOUNT NOT VALID

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier		M ID 2/3
			Code qualifying the Reference Identification		
			7G	Data Quality Reject Reason	
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		
			008	Account Exists but is Not Active	
			A13	Other	
				Description Required in REF03	
			A76	Account Not Found	
			ABN	Duplicate Request Received	
			ANE	Account Not Eligible	
			ANL	Service Provider Not Licensed to Provide the Requested Service	
			API	Required Information Missing	
				Description Required in REF03	
			CMB	Account Not Eligible - Minimum Stay	
				The date the customer will become eligible will be provided in the DTM~307 segment.	
			DIV	Date Invalid	
			FBB	Account Enrolled in Budget Billing and Single Bill Requested	
			ICP	Invalid MISO CP Node	
			IPO	Invalid Payment Option	
				POR selected for ineligible account or POR not selected when required on REF~9V segment.	
			ISP	Invalid Service Point Identifier	
			NCB	RES Not Certified to Provide Requested Bill Option	
			NEB	Customer Not Eligible for Requested Bill Option	
			NFI	Not First In	
			UND	Cannot Identify Service Provider	
				DUNS or DUNS+4 Not Valid	
			W05	Requested RES Rate Code Not Found or in Effect (Rate Ready Only)	
			W06	Requested RES Rate Code Invalid for Utility Rate Class (Rate Ready Only).	
Dep	REF03	352	Description		X AN 1/80

A free-form description to clarify the related data elements and their content
Additional Text Description.

Segment: **REF** Reference Identification (Bill Presenter)
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: Required
 Reject Response: Not Used
 REF~BLT~DUAL

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	
			BLT	Billing Type
				Bill Presenter
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	The Utility and RES both Present Bills to the Customer
			ESP	RES Presents the Consolidated Bill to the Customer
				Used for Illinois "SBO" (Single Bill Option) Only
			LDC	Utility Presents the Consolidated Bill to the Customer
				Used for both Rate Ready and Bill Ready Utility Consolidated Billing

Segment: **REF** Reference Identification (Bill Calculator)
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: Required
 Reject Response: Not Used
 REF~PC~DUAL

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
Must Use	REF01	128 Reference Identification Qualifier Code qualifying the Reference Identification PC Production Code Bill Calculator	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 DUAL Each party calculates its own charges LDC The Utility calculates the RES charges Used for Rate Ready Utility Consolidated Billing	X AN 1/30

Segment: **REF** Reference Identification (Payment Option)
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: Required
 Reject Response: Not Used

At this time, if signing a customer up for Utility Consolidated Billing, this segment must be sent and indicate "Y" for POR. Otherwise, the "N" should be sent.

If the customer does not qualify for POR, or if the POR field is "N" when UCB is requested, the utility will reject the transaction and include a Rejection Reason code of IPO.

REF~9V~Y

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 9V Payment Category Indicates whether the customer is to be part of the Purchase of Receivables (POR) program.	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 N Customer should NOT be signed up for the POR program. Y Customer should be signed up for the POR program.	X AN 1/30

Segment: **REF** Reference Identification (Bill Cycle)
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: Required
 Reject Response: Not Used
 REF~BF~07

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
Must Use	REF01	128 Reference Identification Qualifier Code qualifying the Reference Identification BF Billing Center Identification Bill Cycle	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 Bill Cycle	X AN 1/30

Segment: **REF** Reference Identification (MISO CP Node)
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 Accept Response - Required if sent on the Enrollment Request
 Ameren Reject Response - Not Used
 ComEd - Not Used
 REF~CP~~AMIL.BGS2

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 CP Condition of Purchase Document Number MISO CP Node	M ID 2/3
Must Use	REF03	352	Description A free-form description to clarify the related data elements and their content MISO CP Node	X AN 1/80

Segment: **REF** Reference Identification (Supply Group)
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: Not Used
 ComEd Accept Response: Required
 ComEd Reject Response: Not Used

Customer supply groups are designations for retail customers located in the Company's service territory so that retail customers can be categorized for the purposes of computing charges for the procurement of electric power and energy and applying such charges to retail customers. Please see the ComEd tariff for additional details.
 REF~PTC~~SELF-GENERATING

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 PTC Patent Type Supply Group	M ID 2/3
Must Use	REF03	352	Description A free-form description to clarify the related data elements and their content Supply Group	X AN 1/80

Segment: **REF** Reference Identification (Utility Budget Billing Status)
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 to convey the budget billing status at time of the enrollment.
REF~NR~N

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	
			NR Progress Payment Number	
			Utility Budget Billing Status	
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 Customer Does Not Participate in Budget Billing for Utility Charges	
			Y Customer Participates in Budget Billing for Utility Charges	

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

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

Semantic Notes:

Comments:

Notes:

Required when the Enrollment is rejected because the customer is on a minimum stay with the Utility (Rejection Reason Code "CMB"), otherwise, Not Used
DTM~307~20101201

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 307 Eligibility	M ID 3/3
Must Use	DTM02	373	Date Date expressed as CCYYMMDD Eligibility Date	X DT 8/8

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

Accept Response: Required
 Reject Response: Not Used
 DTM~150~20100515

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
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	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	
			Service Period Start Date	

Segment: **AMT** Monetary Amount (PLC - Peak Load Contribution)
Position: 060
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes:

Ameren: Not Used
 ComEd Accept Response: Required
 ComEd Reject Response: Not Used

 Zero values may be sent if the utility is, in fact, stating that there is no contribution for this customer's account.
 AMT~KC~99.99999

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	AMT01	522	Amount Qualifier Code Code to qualify amount KC Obligated	M ID 1/3
				Peak load contributions provided to PJM for Installed Capacity calculation (coincident with PJM peak).
Must Use	AMT02	782	Monetary Amount Monetary amount Peak Load Contribution (PLC)	M R 1/18

Segment: **AMT** Monetary Amount (Transmission Contribution - NSPL)
Position: 060
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes:

Accept Response: Required
 Reject Response: Not Used

 Zero values may be sent if the utility is, in fact, stating that there is no contribution for this customer's account.

 AMT~KZ~752

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	AMT01	522	Amount Qualifier Code Code to qualify amount KZ Mortgage's Monthly Obligations	M ID 1/3
			Transmission Contribution: Customer's contribution to the Transmission System's annual peak load. Also known as Network Service Peak Load (NSPL).	
Must Use	AMT02	782	Monetary Amount Monetary amount Transmission Contribution	M R 1/18

Segment: **AMT** Monetary Amount (Peak Demand)
Position: 060
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

Notes: Accept Response: Required if the meter measures demand and there is history on the account, otherwise Not Used
 Reject Response: Not Used
 AMT~MA~84.999

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	AMT01	522	Amount Qualifier Code Code to qualify amount MA Maximum Amount Peak Demand	M ID 1/3
Must Use	AMT02	782	Monetary Amount Monetary amount Peak Demand	M R 1/18

Segment: **AMT** Monetary Amount (Total kWh)
Position: 060
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

Notes: Accept Response: Required if there is history on the account, otherwise Not Used
 Reject Response: Not Used
 AMT~TA~293411

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	AMT01	522	Amount Qualifier Code	M ID 1/3
			Code to qualify amount	
			TA	Total Annual Sales
				Total kWh
Must Use	AMT02	782	Monetary Amount	M R 1/18
			Monetary amount	
				Total kWh

Segment: **AMT** Monetary Amount (Number of Months for Total kWh and Peak Demand)
Position: 060
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes: Accept Response: Required if there is history on the account, otherwise Not Used
 Reject Response: Not Used
 AMT~LD~12
 AMT~LD~4

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	AMT01	522	Amount Qualifier Code Code to qualify amount LD Incremental Number of Months over which the Total kWh (AMT~TA) and/or Peak Demand (AMT~MA) are calculated.	M ID 1/3
Must Use	AMT02	782	Monetary Amount Monetary amount Number of Months	M R 1/18

Segment: **NM1** Individual or Organizational Name (Meter Information)
Position: 080
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To supply the full name of an individual or organizational entity
Syntax Notes: 1 If either NM108 or NM109 is present, then the other is required.
2 If NM111 is present, then NM110 is required.
Semantic Notes: 1 NM102 qualifies NM103.
Comments: 1 NM110 and NM111 further define the type of entity in NM101.
Notes: Accept Response: Required - One NM1 will be provided for each Meter and one will be provided for Unmetered Services if applicable.
Reject Response: Not Used
NM1~MQ~3~~~~~32~MG000001
NM1~MQ~3~~~~~93~UNMETERED

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	NM101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual MQ Metering Location	M ID 2/3
Must Use	NM102	1065	Entity Type Qualifier Code qualifying the type of entity 3 Unknown	M ID 1/1
Must Use	NM108	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 32 Assigned by Property Operator	X ID 1/2
Must Use	NM109	67	Identification Code Code identifying a party or other code Meter Number Meter Number or the literal "UNMETERED"	X AN 2/80

Segment: **REF** Reference Identification (Service Point Identifier)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

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

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

Comments:

Notes:

Ameren Accept Response: Required
 Ameren Reject Response: Not Used
 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 Code qualifying the Reference Identification LU Location Number Service Point Identifier	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 Service Point Identifier	X AN 1/30

Segment: **REF** Reference Identification (Rate Class)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

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

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

Comments:

Notes:

Accept Response: Required
 Reject Response: Not Used
 REF~NH~DS1~Retail Delivery Service - 0 to 100 kW

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 NH Rate Card Number Utility Rate Class	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 Rate Class	X AN 1/30
	REF03	352	Description A free-form description to clarify the related data elements and their content Text Description of Rate Class	X AN 1/80

Segment: **REF** Reference Identification (Load Profile)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

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

Semantic Notes:

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

Comments:
Notes:

Accept Response: Required
 Reject Response: Not Used
 REF~LO~33

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 LO Load Planning Number Load Profile	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 Load Profile	X AN 1/30

Segment: **REF** Reference Identification (RES Rate Code)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

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

Semantic Notes:

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

Comments:
Notes: Ameren Accept Response: Required for Rate Ready Utility Consolidated Billing
All other Responses: Not Used
REF~RB~123ABC

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 RB Rate code number RES Rate Code	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 RES Rate Code	X AN 1/30

Segment: **REF** Reference Identification (Type of Metering)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

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

Semantic Notes:

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

Comments:

Notes:

Accept Response: Required
 Reject Response: Not Used

There will be one REF~TU segment for each Type of Metering that will be sent on the 867 Monthly or Interval Usage transaction. Included in the REF03 is the Meter Type, which is made up of the Type of Consumption plus the Metering Interval.

This segment is provided for unmetered services and will reflect what is shown in the 867 (e.g., KHMON).

Type of Consumption	Metering Interval
K1 - kW	030
K3 - kVARH	060
KH - kWH	MON

For Example:
 REF~TU~41~KHMON
 REF~TU~42~KHMON
 REF~TU~51~KHMON
 REF~TU~41~K1MON
 REF~TU~42~K1MON
 REF~TU~51~K1MON

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		
			TU	Trial Location Code	
				Type of Metering Information that will be sent on the 867 Usage Transaction.	
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		
			41	Off Peak	
			42	On Peak	
			51	Totalizer	
Must Use	REF03	352	Description		X AN 1/80
			A free-form description to clarify the related data elements and their content		
			Meter Type		

Segment: **REF** Reference Identification (Supply Voltage)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

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

Semantic Notes:

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

Comments:
Notes: Ameren Accept Response: Required
 Ameren Reject Response: Not Used
 ComEd: Not Used
 REF~SV~PRIMARY

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 SV Service Charge Number Supply Voltage	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 ABOVE100KV HIGHVOLTAGE PRIMARY SECONDARY	X AN 1/30

Segment: **REF** Reference Identification (Delivery Voltage)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

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

Semantic Notes:

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

Comments:
Notes: Ameren Accept Response: Required
Ameren Reject Response: Not Used
ComEd: Not Used
REF~KK~HIGHVOLTAGE

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 KK Delivery Reference Delivery Voltage	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 ABOVE100KV HIGHVOLTAGE PRIMARY SECONDARY	X AN 1/30

Segment: **REF** Reference Identification (Meter Voltage)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

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

Semantic Notes:

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

Comments:
Notes: Ameren Accept Response: Required for each meter. This segment will not be provided for unmetered services.
 Ameren Reject Response: Not Used
 ComEd: Not Used
 REF~4L~SECONDARY

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	
			4L Location-specific Services Reference Number	
			Meter Voltage	
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	
			ABOVE100KV	
			HIGHVOLTAGE	
			PRIMARY	
			SECONDARY	

Segment: **REF** Reference Identification (Number of Dials)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

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

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

Comments:

Notes:

Accept Response: Required for each meter that has dials. This segment will not be provided for unmetered services.

Reject Response: Not Used

Number of Dials on the meter expressed as X.Y where X is the number of dials to the left of the decimal and Y is the number of dials to the right.

REF~IX~6.0 Meter has 6 digits to the left of the decimal and none to the right.

REF~IX~5.1 Meter has 5 digits to the left of the decimal and one to the right.

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	
			IX	Item Number
				Number of Dials on the meter displayed as the number of dials to the left of the decimal, a decimal point, and the number of dials to the right of the decimal.
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Number of Dials	

Segment: **REF** Reference Identification (Meter Constant)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

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

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

Comments:

Notes: Accept Response: Required for each meter. This segment will not be provided for unmetered services.

Reject Response: Not Used

The Meter Constant will be formatted as 6 digits to the left of the decimal, a decimal point and four digits to the right of the decimal. All 11 characters must be sent.

REF~4P~000001.0000 Meter Constant of 1

REF~4P~000080.0000 Meter Constant of 80

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 4P Affiliation Number Meter Constant (Meter Multiplier) (Ending Reading - Beginning Reading) * Meter Constant = Consumption	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 Meter Constant	X AN 1/30

Segment: **REF** Reference Identification (Meter Role)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

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

Semantic Notes:

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

Comments:
Notes:

Accept Response: Required for each meter. This segment will not be provided for unmetered services.

Reject Response: Not Used

REF~JH~A

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	
			JH Tag	
			Meter Role	
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 Additive - this consumption contributed to the summarized total (do nothing).	
			I Ignore - this consumption did not contribute to the summarized total (do nothing).	
			S Subtractive - this consumption needs to be subtracted from the summarized total.	

Segment: **REF** Reference Identification (Special Meter Configuration)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

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

Semantic Notes:

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

Comments:

Notes: Accept Response: Required if applicable. This segment will not be provided for unmetered services.
 Reject Response: Not Used

Please note that additional codes may be added.
 REF~KY~BMG

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	
			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	
			AL Auxiliary Load (ComEd)	
			BMG Behind the Meter Generation (Ameren)	
			CM Check Meter (ComEd)	
			CO Check Meter/Outflow (ComEd)	
			GM Generator Meter (ComEd)	
			GO Generated Out Meter (ComEd)	
			GS General Service (ComEd)	
			IC Inflow/Check Meter (ComEd)	
			IF In With Flow Through (ComEd)	
			IO In/Out Meter Flow Through (ComEd)	
			IW In/Out Without Flow Through (ComEd)	
			KQ KQ Only (ComEd)	
			NM-BI Net Metering - Bidirectional Meter (Ameren)	
			NM-GG Net Metering - Gross Generation Meter (Ameren)	
			NM-GL Net Metering - Gross Load Meter (Ameren)	
			OF Out with Flow Through (ComEd)	
			OW Out without Flow Through (ComEd)	
			PG Power Factor General Service (ComEd)	
			PS Power Factor Space Heat (ComEd)	
			SH Space Heating (ComEd)	
			XY Rider VA Gen Meter (ComEd)	

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~75~00000001

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>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

Example – Enrollment Accept Response – Utility Consolidated Bill Ready
Ameren Mass Market or Non-Mass Market

Gray segments are optional or conditional.

ST*814*0001
BGN*11*20100701-814.0061*20100701***2010063000001
N1*8S*UTILITY*1*006912345
N1*SJ*SUPPLIER*9*007909111IL00
N1*8R*CUSTOMER NAME
N3*1234 MAIN STREET
N4*ANYTOWN*IL*12345
PER*IC*CUSTOMER*TE*3125551212 x1234
N1*BT*CUSTOMER BILLING NAME
N3*PO BOX 1234
N4*ANYTOWN*IL*12345-1234
LIN*1*SH*EL*SH*CE
ASI*WQ*021 (Accept Enrollment)
REF*11*0012345600 (RES Account Number)
REF*12*0312345624*GROUPX (Utility Account Number and POR Eligibility Group)
REF*BLT*LDC (Bill Presenter)
REF*PC*DUAL (Bill Calculator)
REF*9V*Y (Payment Option)
REF*BF*01 (Bill Cycle)
REF*CP**CPNODE (MISO CP Node)
DTM*150*20091215 (Start Date)
AMT*KZ*82.9999 (NSPL)
AMT*MA*101.5 (Peak Demand)
AMT*TA*1220984 (Total kWh)
AMT*LD*12 (Number of Months for Peak Demand and Total kWh)
NM1*MQ*3***32*MG00111** (Meter Number)
REF*LU*00000101 (Service Point Identifier for this Meter)
REF*NH*DS1*DELIVERY SERVICE 0-50kW (Utility Rate Class)
REF*LO*33 (Load Profile)
REF*TU*51*KHMON (Type of Metering)
REF*TU*51*K1MON (Type of Metering)
REF*SV*PRIMARY (Supply Voltage)
REF*KK*PRIMARY (Delivery Voltage)
REF*4L*PRIMARY (Meter Voltage)
REF*IX*5.0 (Number of dials)
REF*4P*000010.0000 (Meter Multiplier)
REF*JH*A (Meter Role)
NM1*MQ*3***32*MG00222**
REF*LU*00000101 (Service Point Identifier for this Meter)
REF*NH*DS1*DELIVERY SERVICE 0-50kW (Utility Rate Class)
REF*LO*33 (Load Profile)
REF*TU*51*KHMON (Type of Metering)
REF*TU*51*K1MON (Type of Metering)
REF*SV*PRIMARY (Supply Voltage)
REF*KK*PRIMARY (Delivery Voltage)
REF*4L*PRIMARY (Meter Voltage)
REF*IX*5.0 (Number of dials)
REF*4P*000010.0000 (Meter Multiplier)
REF*JH*A (Meter Role)
NM1*MQ*3***32*UNMETERED** (Meter Number)
REF*LU*00007912 (Service Point Identifier for this Meter)
REF*NH*UN*UNMETERED (Utility Rate Class)
REF*LO*21 (Load Profile)
REF*TU*51*KHMON (Type of Metering)
REF*SV*PRIMARY (Supply Voltage)
REF*KK*PRIMARY (Delivery Voltage)

SE*57*0001

ComEd

ST*814*0001
BGN*11*20100701-814.0061*20100701***2010063000001
N1*8S*UTILITY*1*006912345
N1*SJ*SUPPLIER*9*007909111IL00
N1*8R*CUSTOMER NAME
N3*1234 MAIN STREET
N4*ANYTOWN*IL*12345
PER*IC*CUSTOMER*TE*3125551212 x1234
N1*BT*CUSTOMER BILLING NAME
N3*PO BOX 1234
N4*ANYTOWN*IL*12345-1234
LIN*1*SH*EL*SH*CE
ASI*WQ*021 (Accept Enrollment)
REF*11*0012345600 (RES Account Number)
REF*12*0312345624*GROUPX (Utility Account Number and POR Eligibility Group)
REF*BLT*LDC (Bill Presenter)
REF*PC*DUAL (Bill Calculator)
REF*9V*Y (Payment Option)
REF*BF*01 (Bill Cycle)
REF*PTC**SELF-GENERATING (Supply Group)
DTM*150*20091215 (Start Date)
AMT*KC*10 (PLC)
AMT*KZ*82.9999 (NSPL)
AMT*MA*101.5 (Peak Demand)
AMT*TA*1220984 (Total kWh)
AMT*LD*12 (Number of Months)
NM1*MQ*3***32*MG00111** (Meter Number)
REF*NH*XXX*RESIDENTIAL (Utility Rate Class)
REF*LO*33 (Load Profile)
REF*TU*51*KHMON (Type of Metering)
REF*TU*51*K1MON (Type of Metering)
REF*IX*5.0 (Number of dials)
REF*4P*000010.0000 (Meter Multiplier)
REF*JH*A (Meter Role)
NM1*MQ*3***32*MG00222**
REF*NH*XXX*RESIDENTIAL (Utility Rate Class)
REF*LO*33 (Load Profile)
REF*TU*51*KHMON (Type of Metering)
REF*TU*51*K1MON (Type of Metering)
REF*IX*5.0 (Number of dials)
REF*4P*000010.0000 (Meter Multiplier)
REF*JH*A (Meter Role)
NM1*MQ*3***32*UNMETERED** (Meter Number)
REF*NH*UN*UNMETERED (Utility Rate Class)
REF*LO*21 (Load Profile)
REF*TU*51*KHMON (Type of Metering)
SE*47*0001

**Example – Enrollment Reject Response – Utility Consolidated Bill Ready
ComEd or Ameren Mass Market or Non-Mass Market**

ST*814*0001
BGN*11*20100701-814.0061*20100701***2010063000001
N1*8S*UTILITY*1*006912345
N1*SJ*SUPPLIER*9*007909111IL00
N1*8R*CUSTOMER NAME
LIN*1*SH*EL*SH*CE
ASI*U*021 (Accept Enrollment)
REF*11*0012345600 (RES Account Number)
REF*12*0312345624
REF*7G*A76*ACCOUNT NOT FOUND
SE*11*0001