

Illinois

Implementation

Guide

For

Electronic

Data

Interchange

Transaction Set

ANSI ASC X12 Version 004010

814

Enrollment Response

Version 2.8

Summary of Changes

- | | |
|-----------------------------------|---|
| January 6, 2009
Version 1.0 | <ul style="list-style-type: none">• Initial Release. |
| October 24, 2009
Version 1.1 | <ul style="list-style-type: none">• 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. |
| January 6, 2011
Version 1.2 | <ul style="list-style-type: none">• Change Control #016 – Updated POR Eligibility Group Codes.• Change Control #017 – Updated Implementation Notes section and BGN06 to explain the use of the term “MANUAL” in the BGN06 in the event that Ameren needs to send an enrollment response without a request.• Change Control #022 – Added REF*SPL for Ameren’s Rate Zone |
| August 3, 2011
Version 1.3 | <ul style="list-style-type: none">• Change Control #029 – Added PER 05-08 for optional second and third telephone numbers.• Change Control #031 – Corrected Billing Address Zip Code to be “Required if Available” and provided examples where zip code is not available. |
| October 6, 2011
Version 1.4 | <ul style="list-style-type: none">• Change Control #033 – Clarified REF03 of REF*NH and REF02 of REF*KY to explain Ameren and ComEd’s inclusion of code “SH” for Space Heating.• Change Control #035 – Added section to Implementation Notes for Space Heating. |
| May 31, 2013
Version 2.0 | <ul style="list-style-type: none">• Change Control #039 – Modified AMT segments to Not Used for Ameren, including NSPL, Peak Demand, Total kWh and Number of Months. This information will be sent on 814 Change transactions at the Service Point level.• Change Control #040 – Added requirements for Ameren Gas |
| October 14, 2013
Version 2.1 | <ul style="list-style-type: none">• Change Control #041 – Added REF*45 (Old Utility Account Number), which will be used for Ameren Initiated Enrollments (i.e., bankruptcy, etc.); corrected REF*LO (Load Profile) to be for Electric only; added examples for Ameren Gas; and clarified REF*PRT to indicate SVT is not applicable at this time. |
| January 23, 2015
Version 2.2 | <ul style="list-style-type: none">• Change Control #042 – Added AMI Data Preference Identifier (REF*17), Demand Response Indicator (REF*DR) and AMI Data Availability (REF*KX). Added ComEd examples. |
| June 1, 2015
Version 2.3 | <ul style="list-style-type: none">• Change Control #042 – Added Ameren examples. |
| January 25, 2016
Version 2.4 | <ul style="list-style-type: none">• Change Control #044 – Added Net Meter Contract Indicator for use by ComEd.• Change Control #049 – Added enrollment response rejection reason code "EAI" (email address invalid or missing) for use by Ameren for gas enrollment rejections. |
| May 18, 2018
Version 2.5 | <ul style="list-style-type: none">• Change Control #050 – Added Community Solar Participant Indicator (REF*AN). |
| November 16, 2018
Version 2.6 | <ul style="list-style-type: none">• Change Control #051 – Added New Special Meter Configuration Code to (REF*KY). Also added a description of Community Solar to the Implementation Notes. |
| September 30, 2019
Version 2.7 | <ul style="list-style-type: none">• Change Control #052 – Added Low Income Customer Indicator (REF*5E), Government Aggregation Program Indicator (REF*PG), Savings Guarantee |

October 5, 2023
Version 2.8

Plan Indicator (REF*SG) and new Reject Reason Code CAP as a result of a 2019 Amendment to SB0651.

- **Change Control #055** – Updated PLC (AMT*KC) and NSPL (AMT*KZ) to indicate that negative values may be sent.

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<ul style="list-style-type: none">○ Electric: Includes any account containing one or more of only the following types of service points: DS-1 (residential), DS-2 (small commercial < 150 kW) or DS-5 (lighting).○ Gas: Includes any account containing one or more of only the following types of service points: GDS-1 (residential) and GDS-2 (small general gas delivery - provided that GDS-2 service point(s) are not on the Rider T gas transportation option).• 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 Retail Electric Supplier/Gas Supplier (RES/GS) is required to take all service points on the account that is being enrolled. For Non-Mass Market accounts, the RES/GS 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.
Historical Interval Usage Requested Separately	<ul style="list-style-type: none">• The RES/GS 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/GS 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/GS 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	<ul style="list-style-type: none"> • 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.
Ameren Initiated Enrollments	<ul style="list-style-type: none"> • Ameren may initiate the enrollment of an account or service point to RES/GS supply. This may occur for several reasons – one of which is when a customer that is on RES/GS supply declares bankruptcy but remains in business despite the bankruptcy (and is assigned a new account number). In this situation, BGN06 will contain the word “MANUAL”, the Status Reason Code (REF*1P) will contain the code “BNK”, and the Old Account Number will appear in the REF*45 segment. If Ameren initiates an enrollment to the RES/GS for any other reason, the BGN06 will contain the word “MANUAL”, the Status Reason Code (REF*1P) will contain the code “UIE” (Utility Initiated Enrollment), and the Old Account Number will appear in the REF*45 segment.
Space Heating	<ul style="list-style-type: none"> • For Ameren, a service point that is eligible for the space heat rate is identified with an "SH" in the text description of the rate class at the beginning of the REF03 (Rate Class) segment. • For ComEd, space heat customers are identified in the REF03 (Rate Class) segment with an NH code and a text description of the applicable space heat rate class. Also for ComEd, the REF02 (Special Meter Configuration) segment provides an SH code specifying space heating.
AMI Data Preference Identifier	<ul style="list-style-type: none"> • The AMI Data Preference Identifier is activated by the RES to indicate to the Utility that interval reads for any AMI meter(s) on the requested account should be provided. <ul style="list-style-type: none"> ○ For Ameren, the activation of the AMI Data Preference Identifier (REF*17*DAILY) on a given account will cause 1.) the most recently available 24 hours’ worth of AMI reads to be sent via the EDI 867DU transaction each day; and 2.) a monthly set of AMI reads to be included in the EDI 867MU transaction when the account bills. The AMI Data Preference Identifier may only be requested for DS1 and DS2 rate classes. ○ For ComEd, the activation of the Daily AMI Data Preference Identifier (REF*17*DAILY) on a given account will cause 1.) the most recently available 24 hours’ worth of AMI reads to be posted to the supplier portal; and 2.) a monthly set of AMI reads to be included in the EDI 867 MU transaction when the account bills. The activation of the MONTHLY AMI Data Preference Identifier (REF*17*MONTHLY) will cause a monthly set of AMI reads to be included in the EDI 867 MU transaction when the account bills. Note if a request fails the residential, warrant or AMI meter validation the enrollment will be accepted but 867s will not contain AMI intervals. The AMI Data Preference Identifier may only be requested for Residential accounts at

Demand Response Indicator

this time. ComEd may include Small Commercial accounts in the future.

- The DR Indicator is activated by the RES or the Utility to indicate that the account or service point is currently on a demand response program. Note that ComEd requires the RES to receive interval AMI reads (see AMI Data Preference Identifier) in order to set the DR Indicator.
 - For Ameren, a RES can activate the DR Indicator on any service point for any account (large or small) that it is enrolling. If the RES submits an account level enrollment and activates the DR Indicator, then all electric service points associated with the account will have their respective DR Indicators activated. If the RES submits a service point level enrollment and activates the DR Indicator, then the DR Indicator associated with the requested service point will be activated.
 - For ComEd, the DR Indicator can only be activated for residential accounts at this time. ComEd may include Small Commercial accounts in the future. Note that ComEd requires the activation of the AMI Data Preference Identifier in order to notify ComEd that a customer is participating in a Demand Response program offered by the RES. If the DR Indicator request fails, the enrollment will be accepted but the DR Indicator will not be set. Accounts participating in a ComEd Demand Response program are identified in the RES' Customer List on the ComEd Supplier Portal.

Community Solar (Community Supply)

- Community Solar (also known by ComEd as Community Supply) is a program that allows customers who cannot or do not want to install solar on their property, the ability to utilize solar energy to reduce their electric bill and promote the environment via subscriptions to solar projects. When customers enroll in a Community Solar project, the utility will send a Community Solar Participant Indicator (REF*AN) of "Y" on the 814 Enrollment Response or 814 Change Request transaction. The customer's account is credited with the kWh from the Community Solar project according to their subscription and the details are provided to the supplier at an interval level on the 867 Monthly Usage transaction.
- The Community Solar data will always be provided at the interval level where the 867 Monthly Usage Report Type Code (BPT04) will either be C1 if all the usage on the account is sent at an interval level, or DR if some of the usage is summarized while the Community Solar, or possibly a portion of the On-site generation is at the interval level.
 - For Ameren,
 - The Summary Loop (PTD*SU) will contain the total consumption as it does today, as well as 3 new fields including Total On-site Generation, Total Off-site Generation (Community Solar) and a Starting Bank. These three new fields should give full visibility in the PTD*SU loop as to what the customer should be billed.

Low Income SB0651 Requirement to Identify Government Aggregation Program and/or Savings Guarantee Plan

One Commodity per Transaction

- A separate PTD*PM loop will be sent for Community Solar with a Meter Role of Subtractive (REF*JH*S) and a Meter Number of COMSLR (REF*MG*COMSLR).
- The start and end dates for the pseudo meter loop (DTM*150 and DTM*151) will match the start and end dates for the metered service.
- For ComEd, a pseudo meter is used to measure the kWh credited to the Community Solar customer and is identified with the Special Meter Configuration code “VO” (REF*KY*VO).
- SB0651 states, “(a) Beginning January 1, 2020, an alternative retail electric supplier shall not knowingly submit an enrollment to change a customer's electric supplier if the electric utility's records indicate that the customer either received financial assistance in the previous 12 months from the Low Income Home Energy Assistance Program or, at the time of enrollment is participating in the Percentage of Income Payment Plan, unless (1) the customer's change in electric supplier is pursuant to a government aggregation program adopted in accordance with Section 1-92 of the Illinois Power Agency Act, or (2) the customer's change in electric supplier is pursuant to a Commission-approved savings guarantee plan....”
 - ComEd and Ameren will provide a Low Income Customer Indicator (REF*5E) on the 867 Historical Usage, 814 Enrollment Response and 814 Change Request in order to assist the supplier in identifying low income customers as defined above.
 - If intending to enroll low income customers as described above into a government aggregation program adopted in accordance with Section 1-92 of the Illinois Power Agency Act, the supplier would be required to send the Government Aggregation Program Indicator (REF*PG*Y) on the 814 Enrollment Request.
 - If intending to enroll low income customers as described above into a Commission-approved savings guarantee plan, the supplier would be required to send the Savings Guarantee Plan Indicator (REF*SG*Y) on the 814 Enrollment Request. For ComEd, the supplier will provide a Savings Guarantee Plan warrant.
- Each submitted transaction may be valid for only one commodity (i.e., electric or gas).

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.</u> <u>Des.</u>	<u>Data</u> <u>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. This field may also contain the word "MANUAL" for a Utility Initiated Enrollment. Please see the Implementation Notes section for additional details.	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/Gas 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/GS COMPANY~1~049612345

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 SJ Service Provider Retail Electric Supplier (RES) or Gas Supplier (GS)	M ID 2/3
Must Use	N102	93	Name Free-form name RES/GS 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/GS 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: 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

	Ref.	Data	Attributes
	Des.	Element Name	
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
 PER~IC~OPTIONAL NAME~TE~3125551111 x1234~TE~3125552222
 PER~IC~OPTIONAL NAME~TE~3125551111
 x1234~TE~3125552222~TE~3125553333

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	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
	PER05	365	Communication Number Qualifier Code identifying the type of communication number TE Telephone	X ID 2/2
	PER06	364	Communication Number Complete communications number including country or area code when applicable Customer Telephone Number	X AN 1/80
	PER07	365	Communication Number Qualifier Code identifying the type of communication number TE Telephone	X ID 2/2
	PER08	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. The zip code in the billing address is required if available.
N4~ANYTOWN~IL~30012
N4~A-1010 VIENNA AUSTRIA
N4~A-100 VIENNA~~AT

Data Element Summary

	Ref.	Data	Attributes
	Des.	Element Name	
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
Dep	N403	116 Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) Required if available	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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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~GAS~SH~CE
Enrollment Request - Gas

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

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
Dep	REF03	352	Description A free-form description to clarify the related data elements and their content Electric: This code indicates the current class of customer in regards to the POR Eligibility groups as of the time the transaction is sent. Gas: Not Used GROUPA POR Eligibility Group A Ameren: Residential POR Eligible Accounts ComEd: Residential GROUPB POR Eligibility Group B Ameren: Commercial Mass Market POR Eligible Accounts ComEd: Commercial Mass Market POR Eligible Accounts (watt-hour/small) GROUPE POR Eligibility Group C Ameren: Non-Mass Market POR Eligible Accounts ComEd: Non-Mass Market POR Eligible Accounts (medium) GROUPD POR Eligibility Group D Ameren: Not Used ComEd: Lighting NONPOR Account Not Eligible for POR	X AN 1/80

Segment: **REF** Reference Identification (Old 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: Optional

Both utilities currently have 10 digit account numbers. All 10 digits, including leading zeros must be provided.
 REF~45~0000445641

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	
			45 Old Account Number	
			Old Utility Account Number	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Old Utility Account Number	

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

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
			1P Accessorial Status Code	
				Status Reason Code
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
			BEF Invalid Bank Election Factor	
				Bank Election Factor will be defaulted. Please see Supplier Handbook for default values.
			DIV Date Invalid	
			DPI AMI Data Preference Invalid	
			DRI Demand Response Request Invalid	
			HUR Historical Usage Not Released	
			HUU Historical Usage Unavailable	
			IGP Invalid Gas Pool Group Number	
				The valid pool group number will be included in the enrollment response transaction.
			NAC Not AMI Certified	
				The Account or Service Point does not have any certified AMI meters. Interval details will not be sent.
			NAQ Not AMI Qualified	
				The Account or Service Point does not qualify for AMI Interval service. For Ameren, only DS1 and DS2 Service Points qualify and for ComEd only Residential Accounts qualify.
			NAR No AMI Requested in Association with Demand Response Indicator	
				AMI Data Preference is invalid or not requested in association with Demand Response Indicator. ComEd requires that the RES request AMI (DAILY or MONTHLY) in combination with, or prior to, indicating that the customer is on a Demand Response program.
			W09 Off Cycle Meter Read cannot be performed. Meter will be read on the normal, on cycle read date.	
			WAR No Warrant	
				Suppliers must submit a signed and notarized warrant with ComEd prior to submitting an enrollment request with AMI monthly or daily data (AMI Data Preference

Identifier) or demand response notification (DR Indicator). The warrant validates the supplier has customer permission to request interval data.

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 (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>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
			7G Data Quality Reject Reason	
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
			008 Account Exists but is Not Active	
			A13 Other	
			A76 Account Not Found	
			A91 Service Not Available	
			Commodity requested is not available on this account/service point.	
			ABN Duplicate Request Received	
			ANE Account Not Eligible	
			ANL Service Provider Not Licensed to Provide the Requested Service	
			API Required Information Missing	
			CAP Customer Assistance Program	
			The customer either received financial assistance in the previous 12 months from the Low Income Home Energy Assistance Program or, at the time of enrollment is participating in the Percentage of Income Payment Plan. This customer may only be enrolled if (1) the customer's change in electric supplier is pursuant to a government aggregation program adopted in accordance with Section 1-92 of the Illinois Power Agency Act, or (2) the customer's change in electric supplier is pursuant to a Commission-approved savings guarantee plan.	
			CMB Account Not Eligible - Minimum Stay	
			The date the customer will become eligible will be provided in the DTM~307 segment.	
			DIV Date Invalid	
			EAI Email Address Invalid or Missing	
			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.
IRO	Invalid Rider Option
ISP	Invalid Service Point Identifier
NCB	RES/GS 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/GS Rate Code Not Found or in Effect (Rate Ready Only)
W06	Requested RES/GS 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 Code qualifying the Reference Identification BLT Billing Type Bill Presenter	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 The Utility and RES/GS both Present Bills to the Customer ESP RES/GS Presents the Consolidated Bill to the Customer LDC Utility Presents the Consolidated Bill to the Customer Used for both Rate Ready and Bill Ready Utility Consolidated Billing	X AN 1/30

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

	<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 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 Used for Dual Billing, Illinois "SBO" (Single Bill Option) and Bill Ready Utility Consolidated Billing LDC The Utility calculates the RES/GS 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:

Gas: Not Used
 Electric Accept Response: Required
 Electric 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	M ID 2/3
			Code qualifying the Reference Identification	
			9V	Payment Category
				Indicates whether the customer is to be part of the Purchase of Receivables (POR) program.
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 should NOT be signed up for the POR program.
			Y	Customer should be signed up for the POR program.

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 Electric Accept Response - Required if sent on the Enrollment Request
 Ameren Reject Response - Not Used
 Ameren Gas - 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

	Ref. Des.	Data Element	Name	Attributes
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:

Accept Response: Required to convey the budget billing status at time of the enrollment.
Reject Response: Not Used

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 Code qualifying the Reference Identification NR Progress Payment Number Utility Budget Billing Status	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 Does Not Participate in Budget Billing for Utility Charges Y Customer Participates in Budget Billing for Utility Charges	X AN 1/30

Segment: **REF** Reference Identification (Rate Zone)
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 Electric Accept Response: Required
 Ameren Gas Accept Response: Required
 Reject Response: Not Used
 ComEd: Not Used
 REF~SPL~RATE ZONE I
 REF~SPL~RATE ZONE II
 REF~SPL~RATE ZONE III

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 SPL Standard Point Location Code (SPLC) Rate Zone	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 Rate Zone	X AN 1/30

Segment: **REF** Reference Identification (Gas Rider 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: Electric: Not Used
Gas Accept Response: Required
Gas Reject Response: Not Used
REF~PRT~SVT
REF~PRT~T

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	
			PRT Product Type	
			Gas Rider Option	
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	
			SVT Small Volume Transportation (Rider SVT)	
			T Transportation (Rider T)	

Segment: **REF** Reference Identification (AMI Data Preference 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:

Comments:

Notes:

This segment indicates whether the utility will send AMI interval data, based on whether a valid request was received from the RES. If the RES does not request AMI, or if the request was invalid, the Utility will send DEFAULT, indicating that normal usage will be sent (e.g., interval usage for traditional interval meters, or no interval details for other meters).

Electric Accept Response: Required
 Electric Reject Response: Not Used
 Gas: Not Used

REF*17*DAILY

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	
			17 Client Reporting Category	
			AMI Data Preference 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	
			DAILY Daily and Monthly Intervals	
			Ameren: Intervals will be sent on the 867 Monthly Usage transaction and the 867 Daily Usage transaction. The request will apply to all applicable Service Points on the account.	
			ComEd: Intervals will be sent on the 867 Monthly Usage transaction and will be posted to the portal.	
			DEFAULT AMI Intervals Will Not Be Sent	
			The RES will not receive AMI Interval Data	
			MONTHLY Monthly Intervals	
			Ameren: Not Used	
			ComEd: Intervals will be sent on the 867 Monthly Usage transaction.	

Segment: **REF** Reference Identification (Demand Response Indicator)
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: Electric: Required
Gas: Not Used

The Demand Response Indicator is used to inform the RES of the status of the customer's participation in a Utility or RES operated program, if any, upon completion of the Enrollment with the RES.

REF~DR~S

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 DR Dock Receipt Number Demand Response Indicator	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 No Plan S Retail Electric Supplier (RES) U Utility Ameren: The customer is not participating in a Demand Response program. ComEd: The customer is not participating in a Demand Response program offered by the RES. The customer is participating in a Demand Response program offered by the RES. Ameren: The customer is participating in a Demand Response program offered by the Utility. ComEd: Not Used. Accounts participating in a ComEd Demand Response program are identified in the RES' Customer List on the ComEd Supplier Portal.	X AN 1/30

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

 The Net Meter Contract Indicator is used to inform the supplier that ComEd has an active Net Meter contract with the customer.
 REF~NM~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	M ID 2/3
			Code qualifying the Reference Identification	
			NM	Discounter Registration Number
				Net Meter Contract Indicator
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			N	No
				There is not an active Net Meter Contract for this account
			Y	Yes
				There is an active Net Meter Contract for this account

Segment: **REF** Reference Identification (Community Solar Participant Indicator)
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 Electric: Not used, Ameren will send indicator on 814 Change for each Service Point immediately following the 814 Enrollment Response
 ComEd: Required upon implementation of Community Solar program
 Gas: Not Used

 REF~AN~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 AN Associated Purchase Orders Community Solar Participant Indicator	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 No Y Yes This customer does not participate in Community Solar for this account This customer participates in Community Solar for this account	X AN 1/30

Segment: REF Reference Identification (Low Income Customer Indicator)
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

SB0651 states, "(a) Beginning January 1, 2020, an alternative retail electric supplier shall not knowingly submit an enrollment to change a customer's electric supplier if the electric utility's records indicate that the customer either received financial assistance in the previous 12 months from the Low Income Home Energy Assistance Program or, at the time of enrollment is participating in the Percentage of Income Payment Plan, unless (1) the customer's change in electric supplier is pursuant to a government aggregation program adopted in accordance with Section 1-92 of the Illinois Power Agency Act, or (2) the customer's change in electric supplier is pursuant to a Commission-approved savings guarantee plan...."

REF*5E*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	M ID 2/3
			Code qualifying the Reference Identification	
			5E Consumer Identifier	
			Low Income Customer Indicator	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			N No	
			Y Yes	
			This customer has not received financial assistance in the previous 12 months from the Low Income Home Energy Assistance Program and at the time of enrollment is not participating in the Percentage of Income Payment Plan.	
			This customer either received financial assistance in the previous 12 months from the Low Income Home Energy Assistance Program or, at the time of enrollment is participating in the Percentage of Income Payment Plan.	

Segment: **REF** Reference Identification (Government Aggregation Program Indicator)
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: Electric Accept Response: Required if provided on the 814 Enrollment Request
 Electric Reject Response: Not Used
 Gas: Not Used
 REF*PG*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 PG Product Group Government Aggregation Program 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 N No Y Yes This customer is being enrolled into a government aggregation program adopted in accordance with Section 1-92 of the Illinois Power Agency Act, and is therefore is eligible to be switched, even if the customer either received financial assistance in the previous 12 months from the Low Income Home Energy Assistance Program or, at the time of enrollment is participating in the Percentage of Income Payment Plan.	X AN 1/30

Segment: **REF** Reference Identification (Savings Guarantee Plan Indicator)
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: Electric Accept Response: Required if provided on the 814 Enrollment Request
 Electric Reject Response: Not Used
 Gas: Not Used
 REF*SG*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 SG Savings Commission-approved savings guarantee plan	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 No Y Yes This customer is not being enrolled into a Commission-approved savings guarantee plan as described in SB0651. This customer is being enrolled into a Commission-approved savings guarantee plan as defined in SB0651, and is therefore eligible to be switched, even if the customer either received financial assistance in the previous 12 months from the Low Income Home Energy Assistance Program or, at the time of enrollment is participating in the Percentage of Income Payment Plan.	X AN 1/30

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

	Ref.	Data	Attributes
	Des.	Element Name	
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.

 Negative values may be sent when the PLC is in negative.

 AMT~KC~2.9999
 AMT~KC~0
 AMT~KC~-0.9999

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	AMT01	522	Amount Qualifier Code Code to qualify amount KC Obligated Peak load contributions provided to PJM for Installed Capacity calculation (coincident with PJM peak).	M ID 1/3
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: Ameren: Not Used. This information will be sent for electric accounts on an 814 Change transaction for each Service Point, shortly after an 814 Enrollment Accept transaction is sent.
 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.

 Negative values may be sent when the NSPL is in negative.

 AMT~KZ~2.9999
 AMT~KZ~0
 AMT~KZ~-0.9999

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
Must Use	AMT01	522	Amount Qualifier Code Code to qualify amount KZ Mortgage's Monthly Obligations Transmission Contribution: Customer's contribution to the Transmission System's annual peak load. Also known as Network Service Peak Load (NSPL).	M ID 1/3
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: Ameren: Not Used. This information will be sent for electric accounts on an 814 Change transaction for each Service Point, shortly after an 814 Enrollment Accept transaction is sent, if the meter measures demand and there is history on the account.
 ComEd Accept Response: Required if the meter measures demand and there is history on the account.
 ComEd 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: Ameren: Not Used. This information will be sent for electric accounts on an 814 Change transaction for each Service Point, shortly after an 814 Enrollment Accept transaction is sent, if there is a history on the account.
 ComEd Accept Response: Required if there is history on the account.
 ComEd Reject Response: Not Used
 AMT~TA~293411

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</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: Ameren: Not Used. This information will be sent for electric accounts on an 814 Change transaction for each Service Point, shortly after an 814 Enrollment Accept transaction is sent, if there is history on the account.
 ComEd Accept Response: Required if there is history on the account.
 ComEd 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.</u> <u>Des.</u>	<u>Data</u> <u>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 Meter Number	X ID 1/2
Must Use	NM109	67	Identification Code Code identifying a party or other code 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 (Gas Pool Group Number)
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 Electric: Not Used
 Ameren Gas Accept Response: Required if service point is assigned to a pool
 Ameren Gas Reject Response: Optional
 ComEd: Not Used
 REF~VI~123456789012

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 VI Pool Number Pool Group 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 Pool Group Number	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
REF~NH~DS1~SH-DS - Residential (DS-1)

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 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 For Ameren, "SH" indicates that the given service point is either eligible for or is currently on an Ameren Basic Generation Service (BGS) or System Gas Service (SGS) space heating rate. For ComEd, space heat rate customers are identified by a text description of the applicable space heat 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: Electric Accept Response: Required
 Gas Accept Response: Not Used
 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/GS 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/GS 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/GS 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
TD - Therms	

Electric 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

Gas Example:

REF~TU~51~TDMON

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 TU Trial Location Code Type of Metering Information that will be sent on the 867 Usage Transaction.	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 41 Off Peak 42 On Peak 51 Totalizer	X AN 1/30
Must Use	REF03	352	Description A free-form description to clarify the related data elements and their content Meter Type	X AN 1/80

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 Electric Accept Response: Required
 Ameren Gas Accept Response: Not Used
 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 Electric Accept Response: Required
 Ameren Gas Accept Response: Not Used
 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 Electric Accept Response: Required for each meter. This segment will not be provided for unmetered services.
Ameren Gas Accept Response: Not Used
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 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.	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 Number of Dials	X AN 1/30

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 Code qualifying the Reference Identification KY Site Specific Procedures, Terms, and Conditions Special Meter Configuration	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 For ComEd, space heat customers are identified with a REF02 code of "SH". 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) VO Community Solar Meter (ComEd) The pseudo meter for Community Solar will always start with a 6. XY Rider VA Gen Meter (ComEd)	X AN 1/30

Segment: **REF** Reference Identification (AMI Data Availability)
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:

This segment is used to inform the RES whether AMI Interval Data is available; it does not indicate that interval details will be sent. If the RES wants to receive interval details, they may send an 814 Change Request for REF~17~DAILY.

Ameren Electric Accept Response: Required if AMI data is available
 ComEd Electric Accept Response: Not Used
 Electric Reject Response: Not Used
 Gas: Not Used
 REF~KX~AMI

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	
			KX Representation	
			AMI Data Availability	
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	
			AMI AMI Interval Data is Available	
			NOTAMI AMI Interval Data is Not Available	

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~75~000000001

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	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

Example 1 – Enrollment Accept Response

Ameren Mass Market or Non-Mass Market – Electric	Ameren Mass Market or Non-Mass Market – Gas
ST*814*0020 BGN*11*9621222738201804235000*20180423***154227726 N1*8S*AMEREN ILLINOIS*1*006936017 N1*SJ*Supplier*9*11111111IL00 N1*8R*CUSTOMER NAME N3*406 PARK VIEW DR N4*KAPPA*IL*61738 N1*BT*CUSTOMER NAME N3*406 PARK VIEW DR N4*KAPPA*IL*61738 LIN*20180424000041400000*SH*EL*SH*CE*SH*HU ASI*WQ*021 REF*12*9621220000*GROUPA REF*SPL*RATE ZONE III REF*BLT*LDC REF*PC*DUAL REF*9V*Y REF*BF*09 REF*NR*N REF*17*DEFAULT REF*DR*N REF*5E*N DTM*150*20180509 NM1*MQ*3*****32*72690000 REF*LU*45610000 REF*NH*DS1*DS-1 Residential Delivery Serv REF*LO*RESDHL-IP REF*TU*51*KHMON REF*SV*PRIMARY REF*KK*SECONDARY REF*4L*SECONDARY REF*IX*6.0 REF*4P*000001.0000 REF*JH*A REF*KX*AMI SE*36*0020	ST*814*0001 BGN*11*1088233003201308130001*20130813***SES2 0130802101700002 N1*8S*AMEREN ILLINOIS*1*006936017 N1*SJ*ABCENERGY*1*192834560 N1*8R*CUSTOMER TWO N3*2222 STANTON ST N4*SPRINGFIELD*IL*62703 N1*BT*CUSTOMER TWO N3* MS 2222A PO BOX 2440 N4*SPOKANE*WA*99210 LIN*SES20130802101700002*SH*GAS*SH*CE ASI*WQ*021 REF*11*0012345600 REF*12*1088233003 REF*SPL*RATE ZONE II REF*BLT*DUAL REF*PC*DUAL REF*BF*01 REF*NR*N REF*PRT*T DTM*150*20130901 NM1*MQ*3*****32*20734697 REF*LU*73248964 REF*NH*GDS*SH-GDS-2 Small Gen Gas Del-Sp REF*TU*51*TDMON REF*IX*4.0 REF*4P*000001.0000 REF*JH*A REF*VI*108823299801 SE*30*0001

ComEd - Electric

ST*814*0001
BGN*11*81420130329031845469999*20130328***201303280000187282240002939999
N1*SJ*SUPPLIER*9*007909111IL00
N1*8S*COMMONWEALTH EDISON CO*1*006929509
N1*8R*CUSTOMER NAME
N3*1234 MAIN STREET
N4*ROMEOVILLE*IL*60446
PER*IC**TE*815555-1212
LIN*20130328000018728999*SH*EL*SH*CE*SH*HU
ASI*WQ*021
REF*11*0012345600
REF*12*0312345624*GROUPB
REF*BF*17
REF*BLT*LDC
REF*PC*DUAL
REF*NR*N
REF*9V*Y
REF*PTC**SG05
REF*17*DEFAULT
REF*DR*N
REF*NM*Y
REF*AN*N
REF*5E*N
DTM*150*20130424
AMT*KC*18.7938
AMT*KZ*16.8294
AMT*MA*20
AMT*TA*55970
AMT*LD*12
NM1*MQ*3*****32*141178999
REF*LO*28
REF*NH*R73
REF*TU*51*KHMON
REF*TU*51*K1MON
REF*IX*5.0
REF*4P*000001.0000
REF*JH*A
REF*KY*GS
SE*39*0001

Example 2 – Enrollment Accept Response – Utility Consolidated Bill Ready – Ameren Multiple Service Points

Ameren Mass Market or Non-Mass Market – Electric	Ameren Mass Market or Non-Mass Market – Gas
<p>ST*814*0005 BGN*11*3199111021201302210999*20130221***201302210 000182121980003067999 N1*8S*AMEREN ILLINOIS*1*006936017 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME N3*1234 MAIN STREET N4*EAST SAINT LOUIS*IL*62207 N1*BT*CUSTOMER BILLING NAME N3*PO BOX 1234 N4*EAST SAINT LOUIS*IL*62207 LIN*20130221000018219999*SH*EL*SH*CE ASI*WQ*021 REF*12*0312345624*GROUPB REF*SPL*RATE ZONE I REF*BLT*LDC REF*PC*DUAL REF*9V*Y REF*BF*17 REF*NR*N REF*17*DEFAULT REF*DR*N REF*5E*N DTM*150*20130321 NM1*MQ*3*****32*UNMETERED REF*LU*10997999 REF*NH*DS5*DS - Non-Residential Lighting REF*LO*LITE REF*TU*51*KHMON REF*SV*PRIMARY REF*KK*SECONDARY REF*4L*SECONDARY REF*IX*5.0 REF*4P*000001.0000 REF*JH*A NM1*MQ*3*****32*91775888 REF*LU*14583888 REF*NH*DS2*DS - Small General Service (DS REF*LO*DS2LL-CIPSME REF*TU*51*KHMON REF*SV*PRIMARY REF*KK*SECONDARY REF*4L*SECONDARY REF*IX*5.0 REF*4P*000001.0000 REF*JH*A SE*46*0005</p>	<p>n/a at this time</p>

Example 3 – Enrollment Reject Response

Ameren Mass Market or Non-Mass Market- Electric	Ameren Mass Market or Non-Mass Market – Gas
ST*814*0001 BGN*11*7211002004201302210999*20130221***2013 02210000182121960003067999 N1*8S*AMEREN ILLINOIS*1*006936017 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*20130221000018212999*SH*EL*SH*CE ASI*U*021 REF*11*0012345600 REF*12*7211002004 REF*SPL*RATE ZONE I REF*7G*NFI SE*12*0001	ST*814*0001 BGN*11*AM20130903090935690345*20130903***SES 20130802101700004 N1*8S*AMEREN ILLINOIS*1*006936017 N1*SJ*ABCENERGY*1*192834560 LIN*SES20130802101700004*SH*GAS*SH*CE ASI*U*021 REF*12*1234567890 REF*SPL*RATE ZONE II REF*7G*A76 REF*PRT*T SE*11*0001

ComEd – Electric
ST*814*0001 BGN*11*81420130320032010327999*20130319***201303190000185812790003161999 N1*SJ*SUPPLIER*9*007909111IL00 N1*8S*COMED*1*006929509 N1*8R*CUSTOMER NAME LIN*20130319000018581999*SH*EL*SH*CE*SH*HU ASI*U*021 REF*7G*CMB*ACCOUNT NOT ELIGIBLE - MINIMUM STAY REF*11*0012345600 REF*12*1111122233 DTM*307*20131212 SE*12*0001

Example 4 – Accepted Enrollment Response with request for DAILY AMI Data Preference accepted and no Demand Response participation

ComEd - Electric	Ameren - Electric
ST*814*0001 BGN*11*81420130329031845469999*20130328***20 1303280000187282240002939999 N1*SJ*SUPPLIER*9*007909111IL00 N1*8S*COMMONWEALTH EDISON CO*1*006929509 N1*8R*CUSTOMER NAME N3*1234 MAIN STREET N4*ROMEDEVILLE*IL*60446 PER*IC**TE*815555-1212 LIN*20130328000018728999*SH*EL*SH*CE*SH*HU ASI*WQ*021 REF*11*0012345600 REF*12*0312345624*GROUPB REF*BF*17 REF*BLT*LDC REF*PC*DUAL REF*NR*N REF*9V*Y REF*PTC**SG05 REF*17*DAILY REF*DR*N REF*AN*N REF*5E*N DTM*150*20130424 AMT*KC*18.7938 AMT*KZ*16.8294 AMT*MA*20 AMT*TA*55970 AMT*LD*12 NM1*MQ*3*****32*141178999 REF*LO*28 REF*NH*R73 REF*TU*51*KH030 REF*TU*51*K1030 REF*IX*5.0 REF*4P*000001.0000 REF*JH*A REF*KY*GS SE*38*0001	ST*814*0001 BGN*11*81420130329031845469999*20130328***201 303280000187282240002939999 N1*SJ*SUPPLIER*9*007909111IL00 N1*8S*AMEREN ILLINOIS*1*006936017 N1*8R*CUSTOMER NAME N3*1234 MAIN STREET N4*SOMEPLACE*IL*60446 LIN*20130328000018728999*SH*EL*SH*CE*SH*HU ASI*WQ*021 REF*11*0012345600 REF*12*0312345624*GROUPB REF*BF*17 REF*BLT*LDC REF*PC*DUAL REF*SPL*RATE ZONE I REF*NR*N REF*9V*Y REF*17*DAILY REF*DR*N REF*5E*N DTM*150*20130424 NM1*MQ*3*****32*141178999 REF*LU*44970999 REF*NH*DS2*DS - Small General Service (DS REF*LO*DS2LL-CIPSME REF*TU*51*KHMON REF*SV*PRIMARY REF*KK*SECONDARY REF*4L*SECONDARY REF*IX*5.0 REF*4P*000001.0000 REF*KX*AMI REF*JH*A SE*33*0001

Example 5 – Accepted Enrollment Response with request for DAILY AMI Data Preference and Demand Response participation accepted

ComEd - Electric	Ameren - Electric
ST*814*0001 BGN*11*81420130329031845469999*20130328***20 1303280000187282240002939999 N1*SJ*SUPPLIER*9*007909111IL00 N1*8S*COMMONWEALTH EDISON CO*1*006929509 N1*8R*CUSTOMER NAME N3*1234 MAIN STREET N4*ROMEDEVILLE*IL*60446 PER*IC**TE*815555-1212 LIN*20130328000018728999*SH*EL*SH*CE*SH*HU ASI*WQ*021 REF*11*0012345600 REF*12*0312345624*GROUPB REF*BF*17 REF*BLT*LDC REF*PC*DUAL REF*NR*N REF*9V*Y REF*PTC**SG05 REF*17*DAILY REF*DR*S REF*AN*N DTM*150*20130424 AMT*KC*18.7938 AMT*KZ*16.8294 AMT*MA*20 AMT*TA*55970 AMT*LD*12 NM1*MQ*3*****32*141178999 REF*LO*28 REF*NH*R73 REF*TU*51*KH060 REF*TU*51*K1060 REF*IX*5.0 REF*4P*000001.0000 REF*JH*A REF*KY*GS SE*37*0001	ST*814*0001 BGN*11*81420130329031845469999*20130328***20 1303280000187282240002939999 N1*SJ*SUPPLIER*9*007909111IL00 N1*8S*AMEREN ILLINOIS*1*006936017 N1*8R*CUSTOMER NAME N3*1234 MAIN STREET N4*SOMEPLACE*IL*60446 LIN*20130328000018728999*SH*EL*SH*CE*SH*HU ASI*WQ*021 REF*11*0012345600 REF*12*0312345624*GROUPB REF*BF*17 REF*BLT*LDC REF*PC*DUAL REF*NR*N REF*9V*Y REF*17*DAILY REF*DR*S DTM*150*20130424 NM1*MQ*3*****32*141178999 REF*LU*44970999 REF*NH*DS2*DS - Small General Service (DS REF*LO*DS2LL-CIPSME REF*TU*51*KHMON REF*SV*PRIMARY REF*KK*SECONDARY REF*4L*SECONDARY REF*IX*5.0 REF*4P*000001.0000 RF*KX*AMI REF*JH*A SE*31*0001

**Example 6 – Accepted Enrollment Response, but AMI Data Preference request fails
“Not AMI Certified” validation**

ComEd - Electric	Ameren - Electric
<p>ST*814*0001 BGN*11*81420130329031845469999*20130328***20 1303280000187282240002939999 N1*SJ*SUPPLIER*9*007909111IL00 N1*8S*COMMONWEALTH EDISON CO*1*006929509 N1*8R*CUSTOMER NAME N3*1234 MAIN STREET N4*ROMEDEVILLE*IL*60446 PER*IC**TE*815555-1212 LIN*20130328000018728999*SH*EL*SH*CE*SH*HU ASI*WQ*021 REF*11*0012345600 REF*12*0312345624*GROUPB REF*BF*17 REF*BLT*LDC REF*PC*DUAL REF*NR*N REF*9V*Y REF*PTC**SG05 REF*17*DEFAULT REF*DR*N REF*1P*NAC*RMUD REJECTED BECAUSE METER IS NOT AMI CERTIFIED REF*AN*N DTM*150*20130424 AMT*KC*18.7938 AMT*KZ*16.8294 AMT*MA*20 AMT*TA*55970 AMT*LD*12 NM1*MQ*3*****32*141178999 REF*LO*28 REF*NH*R73 REF*TU*51*KHMON REF*TU*51*K1MON REF*IX*5.0 REF*4P*000001.0000 REF*JH*A REF*KY*GS SE*38*0001</p>	<p>ST*814*0001 BGN*11*81420130329031845469999*20130328***201 303280000187282240002939999 N1*SJ*SUPPLIER*9*007909111IL00 N1*8S*AMEREN ILLINOIS*1*006936017 N1*8R*CUSTOMER NAME N3*1234 MAIN STREET N4*SOMEPLACE*IL*60446 LIN*20130328000018728999*SH*EL*SH*CE*SH*HU ASI*WQ*021 REF*11*0012345600 REF*12*0312345624*GROUPB REF*BF*17 REF*BLT*LDC REF*PC*DUAL REF*NR*N REF*9V*Y REF*17*DEFAULT REF*DR*N REF*1P*NAC*METER IS NOT AMI CERTIFIED DTM*150*20130424 NM1*MQ*3*****32*141178999 REF*LU*44970999 REF*NH*DS2*DS - Small General Service (DS REF*LO*DS2LL-CIPSME REF*TU*51*KHMON REF*SV*PRIMARY REF*KK*SECONDARY REF*4L*SECONDARY REF*IX*5.0 REF*4P*000001.0000 REF*KX*NOTAMI REF*JH*A SE*32*0001</p>

**Example 7 – Accepted Enrollment Response, but AMI Data Preference request fails
“Not AMI Qualified” validation**

ComEd - Electric	Ameren - Electric
<p>ST*814*0001 BGN*11*81420130329031845469999*20130328***20 1303280000187282240002939999 N1*SJ*SUPPLIER*9*007909111IL00 N1*8S*COMMONWEALTH EDISON CO*1*006929509 N1*8R*CUSTOMER NAME N3*1234 MAIN STREET N4*ROMEDEVILLE*IL*60446 PER*IC**TE*815555-1212 LIN*20130328000018728999*SH*EL*SH*CE*SH*HU ASI*WQ*021 REF*11*0012345600 REF*12*0312345624*GROUPB REF*BF*17 REF*BLT*LDC REF*PC*DUAL REF*NR*N REF*9V*Y REF*PTC**SG05 REF*17*DEFAULT REF*DR*N REF*1P*NAQ*RMUD REJECTED BECAUSE ACCOUNT IS NOT RESIDENTIAL REF*AN*N DTM*150*20130424 AMT*KC*18.7938 AMT*KZ*16.8294 AMT*MA*20 AMT*TA*55970 AMT*LD*12 NM1*MQ*3*****32*141178999 REF*LO*28 REF*NH*R73 REF*TU*51*KHMON REF*TU*51*K1MON REF*IX*5.0 REF*4P*000001.0000 REF*JH*A REF*KY*GS SE*38*0001</p>	<p>ST*814*0001 BGN*11*81420130329031845469999*20130328***20 1303280000187282240002939999 N1*SJ*SUPPLIER*9*007909111IL00 N1*8S*AMEREN ILLINOIS*1*006936017 N1*8R*CUSTOMER NAME N3*1234 MAIN STREET N4*SOMEPLACE*IL*60446 PER*IC**TE*815555-1212 LIN*20130328000018728999*SH*EL*SH*CE*SH*HU ASI*WQ*021 REF*11*0012345600 REF*12*0312345624*GROUPB REF*BF*17 REF*BLT*LDC REF*PC*DUAL REF*NR*N REF*9V*Y REF*17*DEFAULT REF*DR*N REF*1P*NAQ*ACCOUNT IS NOT QUALIFIED DTM*150*20130424 NM1*MQ*3*****32*141178999 REF*LU*44970999 REF*NH*DS2*DS - Small General Service (DS REF*LO*DS2LL-CIPSME REF*TU*51*KHMON REF*SV*PRIMARY REF*KK*SECONDARY REF*4L*SECONDARY REF*IX*5.0 REF*4P*000001.0000 REF*KX*NOTAMI REF*JH*A SE*33*0001</p>

**Example 8 – Accepted Enrollment Response, but AMI Data Preference request fails
“No Warrant” validation**

ComEd - Electric	Ameren - Electric
<p>ST*814*0001 BGN*11*81420130329031845469999*20130328***20 1303280000187282240002939999 N1*SJ*SUPPLIER*9*007909111IL00 N1*8S*COMMONWEALTH EDISON CO*1*006929509 N1*8R*CUSTOMER NAME N3*1234 MAIN STREET N4*ROMEOVILLE*IL*60446 PER*IC**TE*815555-1212 LIN*20130328000018728999*SH*EL*SH*CE*SH*HU ASI*WQ*021 REF*11*0012345600 REF*12*0312345624*GROUPB REF*BF*17 REF*BLT*LDC REF*PC*DUAL REF*NR*N REF*9V*Y REF*PTC**SG05 REF*17*DEFAULT REF*DR*N REF*1P*WAR*RMUD REJECTED BECAUSE SUPPLIER HAS NO WARRANT ON FILE REF*AN*N DTM*150*20130424 AMT*KC*18.7938 AMT*KZ*16.8294 AMT*MA*20 AMT*TA*55970 AMT*LD*12 NM1*MQ*3*****32*141178999 REF*LO*28 REF*NH*R73 REF*TU*51*KHMON REF*TU*51*K1MON REF*IX*5.0 REF*4P*000001.0000 REF*JH*A REF*KY*GS SE*38*0001</p>	<p>Not a valid scenario for Ameren, as Ameren does not use the warrant process.</p>

Example 9 – Accepted Enrollment Response, but Demand Response request fails due to Invalid Data Preference Value

ComEd - Electric	Ameren - Electric
<p>ST*814*0001 BGN*11*81420130329031845469999*20130328***20 1303280000187282240002939999 N1*SJ*SUPPLIER*9*007909111IL00 N1*8S*COMMONWEALTH EDISON CO*1*006929509 N1*8R*CUSTOMER NAME N3*1234 MAIN STREET N4*ROMEUVILLE*IL*60446 PER*IC**TE*815555-1212 LIN*20130328000018728999*SH*EL*SH*CE*SH*HU ASI*WQ*021 REF*11*0012345600 REF*12*0312345624*GROUPB REF*BF*17 REF*BLT*LDC REF*PC*DUAL REF*NR*N REF*9V*Y REF*PTC**SG05 REF*17*DEFAULT REF*DR*N REF*1P*DPI*REQUEST REJECTED BECAUSE AMI DATA PREFERENCE VALUE IS INVALID REF*AN*N DTM*150*20130424 AMT*KC*18.7938 AMT*KZ*16.8294 AMT*MA*20 AMT*TA*55970 AMT*LD*12 NM1*MQ*3*****32*141178999 REF*LO*28 REF*NH*R73 REF*TU*51*KHMON REF*TU*51*K1MON REF*IX*5.0 REF*4P*000001.0000 REF*JH*A REF*KY*GS SE*38*0001</p>	<p>ST*814*0001 BGN*11*81420130329031845469999*20130328***20 1303280000187282240002939999 N1*SJ*SUPPLIER*9*007909111IL00 N1*8S*AMEREN ILLINOIS*1*006936017 N1*8R*CUSTOMER NAME N3*1234 MAIN STREET N4*SOMEPLACE*IL*60446 PER*IC**TE*815555-1212 LIN*20130328000018728999*SH*EL*SH*CE*SH*HU ASI*WQ*021 REF*11*0012345600 REF*12*0312345624*GROUPB REF*BF*17 REF*BLT*LDC REF*PC*DUAL REF*NR*N REF*9V*Y REF*17*DEFAULT REF*DR*N REF*1P*DPI*AMI DATA PREFERENCE VALUE IS INVALID DTM*150*20130424 NM1*MQ*3*****32*141178999 REF*LU*44970999 REF*NH*DS2*DS - Small General Service (DS REF*LO*DS2LL-CIPSME REF*TU*51*KHMON REF*SV*PRIMARY REF*KK*SECONDARY REF*4L*SECONDARY REF*IX*5.0 REF*4P*000001.0000 REF*KX*AMI REF*JH*A SE*33*0001</p>

Example 10 – Accepted Enrollment Response and DAILY AMI Data preference, but Demand Response Indicator fails due to invalid value

ComEd - Electric	Ameren - Electric
<p>ST*814*0001 BGN*11*81420130329031845469999*20130328***20 1303280000187282240002939999 N1*SJ*SUPPLIER*9*007909111IL00 N1*8S*COMMONWEALTH EDISON CO*1*006929509 N1*8R*CUSTOMER NAME N3*1234 MAIN STREET N4*ROMEDEVILLE*IL*60446 PER*IC**TE*815555-1212 LIN*20130328000018728999*SH*EL*SH*CE*SH*HU ASI*WQ*021 REF*11*0012345600 REF*12*0312345624*GROUPB REF*BF*17 REF*BLT*LDC REF*PC*DUAL REF*NR*N REF*9V*Y REF*PTC**SG05 REF*17*DAILY REF*DR*N REF*1P*DRI*DR IND REJECTED-INVALID VALUE. AMI DATA PEF IS ACCEPTED. REF*AN*N DTM*150*20130424 AMT*KC*18.7938 AMT*KZ*16.8294 AMT*MA*20 AMT*TA*55970 AMT*LD*12 NM1*MQ*3*****32*141178999 REF*LO*28 REF*NH*R73 REF*TU*51*KH030 REF*TU*51*K1030 REF*IX*5.0 REF*4P*000001.0000 REF*JH*A REF*KY*GS SE*38*0001</p>	<p>ST*814*0001 BGN*11*81420130329031845469999*20130328***20 1303280000187282240002939999 N1*SJ*SUPPLIER*9*007909111IL00 N1*8S*AMEREN ILLINOIS*1*006936017 N1*8R*CUSTOMER NAME N3*1234 MAIN STREET N4*SOMEPLACE*IL*60446 PER*IC**TE*815555-1212 LIN*20130328000018728999*SH*EL*SH*CE*SH*HU ASI*WQ*021 REF*11*0012345600 REF*12*0312345624*GROUPB REF*BF*17 REF*BLT*LDC REF*PC*DUAL REF*NR*N REF*9V*Y REF*17*DAILY REF*DR*N REF*1P*DRI*DR IND REJECTED-INVALID VALUE. DTM*150*20130424 NM1*MQ*3*****32*141178999 REF*LU*44970999 REF*NH*DS2*DS - Small General Service (DS REF*LO*DS2LL-CIPSME REF*TU*51*KHMON REF*SV*PRIMARY REF*KK*SECONDARY REF*4L*SECONDARY REF*IX*5.0 REF*4P*000001.0000 REF*KX*AMI REF*JH*A SE*33*0001</p>

Example 11 – Accepted Enrollment Response, but AMI Data Preference is invalid or not sent with Demand Response Indicator. Both fields will have default values.

ComEd - Electric	Ameren - Electric
<p>ST*814*0001 BGN*11*81420130329031845469999*20130328***20 1303280000187282240002939999 N1*SJ*SUPPLIER*9*007909111IL00 N1*8S*COMMONWEALTH EDISON CO*1*006929509 N1*8R*CUSTOMER NAME N3*1234 MAIN STREET N4*ROMEDEVILLE*IL*60446 PER*IC**TE*815555-1212 LIN*20130328000018728999*SH*EL*SH*CE*SH*HU ASI*WQ*021 REF*11*0012345600 REF*12*0312345624*GROUPB REF*BF*17 REF*BLT*LDC REF*PC*DUAL REF*NR*N REF*9V*Y REF*PTC**SG05 REF*17*DEFAULT REF*DR*N REF*1P*NAR*AMI DATA PREFERENCE IS INVALID OR NOT REQUESTED IN ASSOCIATION WITH DR INDICATOR REF*AN*N DTM*150*20130424 AMT*KC*18.7938 AMT*KZ*16.8294 AMT*MA*20 AMT*TA*55970 AMT*LD*12 NM1*MQ*3*****32*141178999 REF*LO*28 REF*NH*R73 REF*TU*51*KHMON REF*TU*51*K1MON REF*IX*5.0 REF*4P*000001.0000 REF*JH*A REF*KY*GS SE*38*0001</p>	<p>ST*814*0001 BGN*11*81420130329031845469999*20130328***20 1303280000187282240002939999 N1*SJ*SUPPLIER*9*007909111IL00 N1*8S*AMEREN ILLINOIS*1*006936017 N1*8R*CUSTOMER NAME N3*1234 MAIN STREET N4*SOMEPLACE*IL*60446 PER*IC**TE*815555-1212 LIN*20130328000018728999*SH*EL*SH*CE*SH*HU ASI*WQ*021 REF*11*0012345600 REF*12*0312345624*GROUPB REF*BF*17 REF*BLT*LDC REF*PC*DUAL REF*NR*N REF*9V*Y REF*17*DEFAULT REF*DR*N REF*1P*NAR*AMI DATA PREFERENCE IS INVALID DTM*150*20130424 NM1*MQ*3*****32*141178999 REF*LU*44970999 REF*NH*DS2*DS - Small General Service (DS REF*LO*DS2LL-CIPSME REF*TU*51*KHMON REF*SV*PRIMARY REF*KK*SECONDARY REF*4L*SECONDARY REF*IX*5.0 REF*4P*000001.0000 REF*KX*AMI REF*JH*A SE*33*0001</p>

Example 12 – Accepted Enrollment Response with no AMI Data Preference or Demand Response Indicator requests sent in by the supplier. Both fields will have default values.

ComEd - Electric	Ameren - Electric
ST*814*0001 BGN*11*81420130329031845469999*20130328***20 1303280000187282240002939999 N1*SJ*SUPPLIER*9*007909111IL00 N1*8S*COMMONWEALTH EDISON CO*1*006929509 N1*8R*CUSTOMER NAME N3*1234 MAIN STREET N4*ROMEDEVILLE*IL*60446 PER*IC**TE*815555-1212 LIN*20130328000018728999*SH*EL*SH*CE*SH*HU ASI*WQ*021 REF*11*0012345600 REF*12*0312345624*GROUPB REF*BF*17 REF*BLT*LDC REF*PC*DUAL REF*NR*N REF*9V*Y REF*PTC**SG05 REF*17*DEFAULT REF*DR*N REF*AN*N DTM*150*20130424 AMT*KC*18.7938 AMT*KZ*16.8294 AMT*MA*20 AMT*TA*55970 AMT*LD*12 NM1*MQ*3*****32*141178999 REF*LO*28 REF*NH*R73 REF*TU*51*KHMON REF*TU*51*K1MON REF*IX*5.0 REF*4P*000001.0000 REF*JH*A REF*KY*GS SE*37*0001	ST*814*0001 BGN*11*0027103045201503250001*20150325***014 03211492549 N1*8S*AMEREN ILLINOIS*1*006936017 N1*SJ*SUPPLIER*1*007909111IL00 N1*8R*CUSTOMER NAME N3*1234 MAIN ST N4*SOMEWHERE*IL*62052 N1*BT*CUSTOMER NAME N3*1234 MAIN ST N4*SOMEWHERE*IL*62052 LIN*1*SH*EL*SH*CE*SH*HU ASI*WQ*021 REF*12*1234567890*GROUPB REF*SPL*RATE ZONE I REF*BLT*LDC REF*PC*LDC REF*9V*Y REF*BF*04 REF*NR*N REF*17*DEFAULT REF*DR*N DTM*150*20150504 NM1*MQ*3*****32*00385218 REF*LU*10222755 REF*NH*DS2*DS - Small General Service (DS REF*LO*UNKNWN REF*RB*4GESCI 4580 REF*TU*51*KHMON REF*SV*PRIMARY REF*KK*SECONDARY REF*4L*SECONDARY REF*IX*5.0 REF*4P*000001.0000 REF*JH*A REF*KX*AMI SE*36*0001