

Illinois

Implementation

Guide

For

Electronic

Data

Interchange

Transaction Set

ANSI ASC X12 Version 004010

814

Enrollment Request

Version 2.5

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 #008 – Fixed error in examples on Page 28. It previously showed REF*PC*DUAL, but was fixed to REF*PC*LDC. |
| May 31, 2013
Version 2.0 | <ul style="list-style-type: none">• Change Control #040 – Added requirements for Ameren Gas; removed reference to Reinstatement transaction from Implementation Notes. |
| October 14, 2013
Version 2.1 | <ul style="list-style-type: none">• Change Control #041 – Added examples for Ameren Gas; 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) and Demand Response Indicator (REF*DR). Removed the information in the Implementation Notes section that related to the Reinstatement transaction. Added examples. |
| May 29, 2015
Version 2.3 | <ul style="list-style-type: none">• Change Control #042 – Added Ameren examples. |
| September 26, 2017
Version 2.4 | <ul style="list-style-type: none">• Change Control #049 – Modified Gas Rider T Requirements to require the Gas Supplier (GS) to send a customer’s Email address and a Requested On Cycle Switch Date. |
| September 30, 2019
Version 2.5 | <ul style="list-style-type: none">• Change Control #052 – Added Government Aggregation Program Indicator (REF*PG) and Savings Guarantee Plan Indicator (REF*SG) as a result of the 2019 passage of SB0651 by the State Legislators. |

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 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 A GS that is requesting an enrollment of a Rider T customer must select the first of the month that the GS wants gas service to begin. This date must be at least 12 business days prior to the first of the month, but no more than 45 calendar days from the date that the enrollment is processed by the Utility. Electric On Cycle Switches are not allowed for Non-Mass Market accounts in certain situations. It is important to review the tariffs to understand the rules.

Off Cycle Switch	<ul style="list-style-type: none"> • The DTM~007 segment may be used by the RES to provide a date for the On Cycle switch. No special codes are used in the LIN segment. If no dates are provided, then the next valid meter cycle will be used. • The DTM~007 segment must be used by the GS to provide a date for the On Cycle switch. • Off Cycle Switches are not allowed for electric Mass Market Accounts or all gas accounts. • Off Cycle Switches are not allowed for Non-Mass Market accounts in certain situations. It is important to review the tariffs to understand the rules. • 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.
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 this time. ComEd may include Small Commercial accounts in the future.
Demand Response Indicator	<ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> ○ 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.

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

- 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.

- 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.

One Commodity per
Transaction

- 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		
						>1	
	040	N1	Name	O	1		n1
	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>
						>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		
						>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

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

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

Comments:

Notes: Required
 BGN~13~20091215123000001~20091215

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	BGN01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 13 Request	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

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

	Ref.	Data	Attributes
	Des.	Element Name	
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

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

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

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

Segment: **PER** Administrative Communications Contact (Customer's Email Address)
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:

Electric: Not Used
 Gas: All Customers electing Rider T service shall provide a valid Email address, by which to receive notice on a 24-hour basis. If a valid Email address is not included, the enrollment will be rejected.

 PER~IC~~EM~Customer@provider.com

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named IC Information Contact	M ID 2/2
	PER02	93	Name Free-form name	O AN 1/60
Must Use	PER03	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail	X ID 2/2
Must Use	PER04	364	Communication Number Complete communications number including country or area code when applicable Gas Customer's Email Address, which will be used by Ameren to alert the customer if an "event" occurs that requires notification.	X AN 1/80

Segment: **LIN** Item Identification

Position: 010

Loop: LIN Optional

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify basic item identification data

Syntax Notes:

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

Semantic Notes:

Comments:

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

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

The following examples are all inclusive. The LIN07 and the LIN09 cannot contain the same value. Historical Interval Usage (HI) must be requested in a separate transaction, not part of the 814 Enrollment.

LIN~1~SH~EL~SH~CE
Enrollment Request - Electric

LIN~1~SH~GAS~SH~CE
Enrollment Request - Gas

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

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

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 Request

Data Element Summary

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

			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		
Dep	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		
Dep	LIN07	234	Product/Service ID		X	AN 1/48
			Identifying number for a product or service			
			HU	Historical Usage		
				Request to obtain Historical Usage		
				If Historical Usage is not available, the Utility will send an 814 Accept Response with the Status Reason Code HUU.		
				If Historical Usage was blocked by the customer, the Utility will send an 814 Accept Response with the Status Reason Code HUR.		
			SW	Off Cycle Switch		
				Electric: Request for a special meter read for a customer to switch off cycle, i.e., not at the next, regularly scheduled meter read. DTM~MRR is required when requesting an off-cycle read.		
				Gas: Not Used		
Dep	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)			
			Electric: Optional if requesting both HU and SW			
			Gas: Not Used			
			SH	Service Requested		
Dep	LIN09	234	Product/Service ID		X	AN 1/48
			Identifying number for a product or service			
			Electric: Optional if requesting both HU and SW			
			Gas: Not Used			
			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~7~021

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 7 Request	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:

Optional
If provided, the Utility will include the RES/GS account number on all transactions.

Only one RES/GS Account Number may be assigned to each Utility Account Number (RES/GS Account Numbers may not be assigned for each Service Point on the account).
REF~11~1234567890

Data Element Summary

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

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

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

Semantic Notes:

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

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

Data Element Summary

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

Segment: **REF** Reference Identification (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: Required
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: Required
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 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: Electric: Required
Gas: Not Used

Until a stand-alone UCB program is developed, 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 (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 - Optional
Ameren Gas - Not Used
ComEd - Not Used

"CP Node" means a Commercial Pricing Node as such term is defined by the MISO Energy Markets Tariff. A CP Node can include but is not limited to a particular Hub, Load Zone or Generation CP Node, as these terms are defined by the MISO Energy Markets Tariff. It is also known as a Fixed Delivery Point.

Each RES will have a single default CP Node, but if a RES chooses to have multiple CP Nodes, this segment is used to assign a CP Node other than their default.
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	M ID 2/3
			MISO CP Node	
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 (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: Required - At this time, the only acceptable code is "T".

Rate GDS-1 = SVT
Rate GDS-2 = SVT or T (option of the supplier)
Rate GDS-3 = T
Rate GDS-4 = T
Rate GDS-5 = T
Rate GDS-7 = T
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 Code qualifying the Reference Identification PRT Product Type Gas Rider Option	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 SVT Small Volume Transportation (Rider SVT) For Future Use Only T Transportation (Rider T)	X AN 1/30

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:

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

Comments:
Notes: Electric: Optional
Gas: Not Used

The AMI Data Preference Identifier is used to indicate that the Utility should send intervals for applicable AMI meters. Please see each Utility's tariff to understand the AMI meters for which this request may be made.

Ameren: If DAILY is sent, Ameren will send the intervals on the 867 Monthly Usage transaction and will send the 867 Daily Usage transaction. The request will apply to all applicable Service Points on the account. If this segment is not sent, 867s for applicable AMI meters will be sent at a summary level (i.e., no interval details).

ComEd: If MONTHLY is sent, ComEd will send the intervals on the 867 Monthly Usage transaction. If DAILY is sent, ComEd will send the intervals on the 867 Monthly Usage transaction and will post the daily intervals to the portal. If this segment is not sent, 867s for applicable AMI meters will be sent at a summary level (i.e., no interval details). This segment must be sent when indicating that a customer is on a RES Demand Response program (see REF*DR segment).

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 Code qualifying the Reference Identification 17 Client Reporting Category AMI Data Preference 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 DAILY Daily and Monthly Intervals Sending DAILY will request both monthly and daily interval reads for applicable AMI meters. MONTHLY Monthly Intervals Ameren: Not Used ComEd: Sending MONTHLY will request only monthly interval reads for applicable AMI meters.	X AN 1/30

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:

Comments:

Notes:

Electric: Required if the customer is participating in a Demand Response program offered by the RES
Gas: Not Used

The Demand Response Indicator is used to indicate that the customer is participating in a Demand Response program.

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 sends the DR Indicator, then all electric service points associated with the account will have their respective DR Indicator activated. If the RES submits a Service Point level enrollment and sends the DR Indicator, then the DR Indicator associated with the requested service point will be activated.

If this segment is set to "S" by the RES and the customer is already on a DR program offered by Ameren, then Ameren will remove the customer from its Demand Response program. The request will apply to all Service Points on the account, unless an 814 Enrollment is sent for a specific Service Point.

ComEd: The DR Indicator can only be activated for residential accounts, which is also true for the AMI Data Preference Identifier.

If this segment is set to "S" by the RES and the customer is already on a DR program offered by ComEd, then ComEd will remove the customer from its Demand Response program. Setting this segment to "S" also requires the RES to request interval details via the AMI Data Preference Identifier (DAILY or MONTHLY).

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	M ID 2/3
			Code qualifying the Reference Identification	
			DR	Dock Receipt Number
				Demand Response 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	
			S	Retail Electric Supplier (RES) Demand Response Program
				The customer is participating in a Demand Response program offered by the RES and should be removed from any Demand Response program offered by the Utility.

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: Required when enrolling customers in a Government Aggregation Program if intending to serve customers who are receiving benefits under PIPP or LIHEAP. These customers are otherwise ineligible to shop for electric or gas supply unless part of a Government Aggregation Program or Commission-approved savings guarantee plan.

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 not being enrolled into a government aggregation program adopted in accordance with Section 1-92 of the Illinois Power Agency Act. 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: Required when enrolling customers on a Commission-approved savings guarantee plan if intending to serve customers who are receiving benefits under PIPP or LIHEAP. These customers are otherwise ineligible to shop for electric or gas supply unless part of a Government Aggregation Program or Commission-approved savings guarantee plan.
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 (Off-Cycle Switch 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:

Electric: Required for Off-Cycle Switch, otherwise not used.
 Gas: Not Used

If LIN contains an SW identifier, then DTM~MRR must also be sent or the transaction will be Rejected.

If the Requested Effective Date is more than 45 calendar days from the date the utility processes the enrollment, the transaction will be Rejected.

If the Requested Effective Date is less than 7 calendar days from the date the utility processes the enrollment...
 ... Ameren will Accept the transaction and the Service Start Date will be the next business day that is at least 7 calendar days from the date the utility processes the enrollment.
 ... ComEd will Reject the transaction.

Please see each Utility's tariffs for the complete rules.
 DTM~MRR~20100430

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time MRR Meter Reading The date the RES would like to have the meter read and the customer switched to the RES's service. This will not change the meter read cycle.	M ID 3/3
Must Use	DTM02	373	Date Date expressed as CCYYMMDD Requested Off-Cycle Switch Date	X DT 8/8

Segment: **DTM** **Date/Time Reference (Requested On-Cycle Switch 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:

Gas (Rider T):
 Required to indicate the first of the month that the GS wants gas service to begin. Date must be the first of the month, must be at least 12 business days in advance of the 1st of the month and cannot be more than 45 days from the date the utility processes the enrollment. Please see Ameren's tariffs for the complete rules.

Electric:
 Required if requesting a switch to occur on-cycle but not necessarily on the next scheduled meter read date, otherwise Not Used. Essentially, this is a "switch no earlier than" date. The requested date must be within 45 days of the date the enrollment is processed by the Utility.

If the date provided is beyond the next scheduled meter read date, and within 45 days of the date the utility processes the enrollment, the switch will occur on the following meter read date. This is true even if the scheduled meter read date is past 45 days.

If the Requested Effective Date is more than 45 calendar days from the date the utility processes the enrollment, the transaction will be Rejected.

If the Requested Effective Date is less than 7 calendar days from the date the utility processes the enrollment, the transaction will be Accepted and the Service Start Date will be the scheduled meter read date beyond the 7 calendar days.

Please see each Utility's tariffs for the complete rules.
 DTM~007~20100515

Data Element Summary

	Ref.	Data	Attributes
	Des.	Element Name	
Must Use	DTM01	374 Date/Time Qualifier	M ID 3/3
		Code specifying type of date or time, or both date and time	
		007 Effective	
		Requested Future On-Cycle Switch Date	
Must Use	DTM02	373 Date	X DT 8/8
		Date expressed as CCYYMMDD	
		Requested Future On-Cycle Switch Date	

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: Ameren Mass Market: Required for Rate Ready Consolidated Billing to provide the RES/GS Rate Code. Only one NM1 and REF~RB may be sent and the Service Point Identifier may not be included. RES/GS Rate Codes must be assigned at the account level for Mass Market accounts.

```
NM1~MQ~3~~~~~32~ALL
REF~RB~ABC123
```

Ameren Non-Mass Market: Optional to Enroll by Service Point or to include a Bank Election Factor or Pool Group Number - One NM1 Loop including one REF~LU segment may be sent for each Service Point Identifier that is being Enrolled for Ameren Non-Mass Market Accounts. If sending a Bank Election Factor and/or Pool Group Number, one NM1 loop must be sent for each Service Point.

```
NM1~MQ~3~~~~~32~ALL
REF~LU~00031324
REF~VI~123456789012
REF~BE~0
NM1~MQ~3~~~~~32~ALL
REF~LU~39834108
REF~VI~123456789012
REF~BE~5
NM1~MQ~3~~~~~32~ALL
REF~LU~10390180
REF~VI~123456789012
REF~BE~10
```

For Rate Ready, the example above changes to:

```
NM1~MQ~3~~~~~32~ALL
REF~LU~00031324
REF~VI~123456789012
REF~BE~0
REF~RB~RATE1
NM1~MQ~3~~~~~32~ALL
REF~LU~39834108
REF~VI~123456789012
REF~BE~5
REF~RB~RATE2
NM1~MQ~3~~~~~32~ALL
REF~LU~10390180
REF~VI~123456789012
REF~BE~10
REF~RB~RATE3
```

ComEd: Not Used

Data Element Summary

Ref. Data

	<u>Des.</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 This field will contain the literal "ALL" which indicates that all meters and/or unmetered services for that service point are included.	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 Mass Market: Not Used
 Ameren Non-Mass Market: Optional to Enroll by Service Point or include a Bank Election Factor or Pool Group Number
 ComEd: Not Used

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

Data Element Summary

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

Segment: **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:

Electric: Not Used
 Ameren Gas:
 SVT - Not Used
 T - A pool number may be included on the enrollment if the GS wants to assign the service point to a specific pool. If the pool number is not included, the customer would automatically be assigned to an individual pool. The GS can change the pool assignment after enrollment via the 814 Change transaction or on the Supply Choice Portal.
 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	M ID 2/3
			Code qualifying the Reference Identification	
			VI Pool Number	
			Pool Group 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	
			Pool Group Number	

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: Required for Rate Ready Utility Consolidated Billing, otherwise Not Used
ComEd: Not Used
REF~RB~RATE39

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 (Bank Election Factor)

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: Not Used

Gas: Required for Transportation customers only, when the service is first enrolling from system gas or SVT to T, or during the annual enrollment period. One NM1 loop containing the Bank Election Factor (BEF) must be sent for each Service Period.

When the service is switching suppliers outside the annual enrollment period, the BEF cannot be changed and is therefore not required.

If this segment is not sent when the service is first enrolling from system gas or SVT to T, or during the annual enrollment period, the BEF will be defaulted to the minimum value. At any other time, it will remain unchanged.

REF~BE~61

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	
			BE Business Activity	
			Bank Election Factor	
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	
			Bank Election Factor - Must be a whole number	

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

Syntax Notes:

Semantic Notes:

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

Notes: Required

SE~13~000000001

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SE01	96	Number of Included Segments	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 Request – Utility Consolidated Bill Ready

Electric	Gas
<p>ComEd or Ameren Mass Market ST*814*0001 BGN*13*2010063000001*20100630 N1*8S*UTILITY*1*006912345 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*LDC REF*PC*DUAL REF*9V*Y SE*13*0001</p>	<p>Ameren Mass Market n/a at this time</p>
<p>Ameren Non-Mass Market ST*814*0001 BGN*13*2010063000001*20100630 N1*8S*UTILITY*1*006912345 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*LDC REF*PC*DUAL REF*9V*Y NM1*MQ*3*****32*ALL REF*LU*00000101 NM1*MQ*3*****32*ALL REF*LU*00007912 SE*17*0001</p>	<p>Ameren Non-Mass Market n/a at this time</p>

Example 2 – Enrollment Request – Utility Consolidated Rate Ready with Historical Usage Request

Electric	Gas
<p>ComEd or Ameren Mass Market ST*814*0001 BGN*13*2010063000001*20100630 N1*8S*UTILITY*1*006912345 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE*SH*HU ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*LDC REF*PC*LDC REF*9V*Y NM1*MQ*3*****32*ALL REF*RB*ABC123 SE*15*0001</p>	<p>Ameren Mass Market n/a at this time</p>
<p>Ameren Non-Mass Market ST*814*0001 BGN*13*2010063000001*20100630 N1*8S*UTILITY*1*006912345 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE*SH*HU ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*LDC REF*PC*LDC REF*9V*Y NM1*MQ*3*****32*ALL REF*RB*ABC123 REF*LU*00000101 NM1*MQ*3*****32*ALL REF*RB*ABC123 REF*LU*00007912 SE*19*0001</p>	<p>Ameren Non-Mass Market n/a at this time</p>

Note in the example above, it is not necessary to provide the Service Point number on the Enrollment transaction. If only the RES Rate Code (REF*RB) is included in the NM1 loop then that rate will be assigned to all Service Points and all Service Points will be enrolled. If Service Point identifiers are included, then the RES Rate Code must be included for each Service Point and only those Service Point identifiers that are included will be enrolled.

It is acceptable to use the 814 Change transaction to update the rates for each service point after the enrollment if the RES prefers to enroll by account.

Example #3 – Enrollment Request – Dual Billed Customer

Electric	Gas
<p>ComEd or Ameren Mass Market ST*814*0001 BGN*13*2010063000001*20100630 N1*8S*UTILITY*1*006912345 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*DUAL REF*PC*DUAL REF*9V*N SE*13*0001</p>	<p>Ameren Mass Market n/a at this time</p>
<p>Ameren Non-Mass Market ST*814*0001 BGN*13*2010063000001*20100630 N1*8S*UTILITY*1*006912345 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*DUAL REF*PC*DUAL REF*9V*N NM1*MQ*3*****32*ALL REF*LU*00000101 NM1*MQ*3*****32*ALL REF*LU*00007912 SE*17*0001</p>	<p>Ameren Non-Mass Market ST*814*0001 BGN*13*TP2E420130828*20130828 N1*8S*AMEREN ILLINOIS*1*006936017 N1*SJ*ABC ENERGY*1*123456789 N1*8R*SCRIPT TWO E004 PER*IC**EM*CUSTOMER@EMAIL.COM LIN*2*SH*GAS*SH*CE ASI*7*021 REF*11*1088232998 REF*12*1088232998 REF*BLT*DUAL REF*PC*DUAL REF*PRT*T DTM*007*20131001 NM1*MQ*3*****32*ALL REF*LU*73248964 REF*VI*108823299801 REF*BE*60 SE*19*0001</p>

Example #4 – Enrollment Request – Single Bill Option (SBO)

<p>Electric</p> <p>ComEd or Ameren Mass Market</p> <p>ST*814*0001 BGN*13*2010063000001*20100630 N1*8S*UTILITY*1*006912345 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*ESP REF*PC*DUAL REF*9V*N SE*13*0001</p>	<p>Gas</p> <p>Ameren Mass Market</p> <p>n/a at this time</p>
<p>Ameren Non-Mass Market</p> <p>ST*814*0001 BGN*13*2010063000001*20100630 N1*8S*UTILITY*1*006912345 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*ESP REF*PC*DUAL REF*9V*N NM1*MQ*3*****32*ALL REF*LU*00000101 NM1*MQ*3*****32*ALL REF*LU*00007912 SE*17*0001</p>	<p>Ameren Non-Mass Market</p> <p>n/a at this time</p>

Example #5 – Enrollment Request – Requested On Cycle Switch Date

Electric	Gas
<p>ComEd or Ameren Mass Market Example shows Dual Bill Option, but this is valid for any bill option.</p> <p>ST*814*0001 BGN*13*2010063000001*20100630 N1*8S*UTILITY*1*006912345 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*DUAL REF*PC*DUAL REF*9V*N DTM*007*20100801 SE*14*0001</p>	<p>Ameren Mass Market n/a at this time</p>
<p>Ameren Non-Mass Market Example shows Dual Bill Option, but this is valid for any bill option.</p> <p>ST*814*0001 BGN*13*2010063000001*20100630 N1*8S*UTILITY*1*006912345 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*DUAL REF*PC*DUAL REF*9V*N DTM*007*20100801 NM1*MQ*3*****32*ALL REF*LU*00000101 NM1*MQ*3*****32*ALL REF*LU*00007912 SE*18*0001</p>	<p>Ameren Non-Mass Market ST*814*0001 BGN*13*TP3E520130828*20130828 N1*8S*AMEREN ILLINOIS*1*006936017 N1*SJ*ABC ENERGY*1*123456789 N1*8R*SCRIPT THREE E005 PER*IC**EM*CUSTOMER@EMAIL.COM LIN*3*SH*GAS*SH*CE ASI*7*021 REF*11*1062211605 REF*12*1062211605 REF*BLT*DUAL REF*PC*DUAL REF*PRT*T DTM*007*20131001 NM1*MQ*3*****32*ALL REF*LU*73284683 REF*VI*555 REF*BE*60 SE*19*0001</p>

Example #6 – Enrollment Request – Requested Off Cycle Switch Date and Historical Usage Request

Electric	Gas
<p>ComEd or Ameren Mass Market Example shows Dual Bill Option, but this is valid for bill options other than SBO for ComEd.</p> <p>ST*814*0001 BGN*13*2010063000001*20100630 N1*8S*UTILITY*1*006912345 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE*SH*SW*SH*HU ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*DUAL REF*PC*DUAL REF*9V*N DTM*MRR*20100711 SE*14*0001</p>	<p>Ameren Mass Market n/a</p>
<p>Ameren Non-Mass Market Example shows Dual Bill Option, but this is valid for any bill option.</p> <p>ST*814*0001 BGN*13*2010063000001*20100630 N1*8S*UTILITY*1*006912345 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE*SH*SW*SH*HU ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*DUAL REF*PC*DUAL REF*9V*N DTM*MRR*20100711 NM1*MQ*3*****32*ALL REF*LU*00000101 NM1*MQ*3*****32*ALL REF*LU*00007912 SE*18*0001</p>	<p>Ameren Non-Mass Market n/a</p>

Example 7 – Enrollment Request – Utility Consolidated Bill Ready UCB/POR with AMI Data Preference Identifier DAILY

ComEd - Electric	Ameren - Electric
<p>ST*814*0001 BGN*13*2015063000001*20150630 N1*8S*UTILITY*1*006912345 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*LDC REF*PC*DUAL REF*9V*Y REF*17*DAILY SE*14*0001</p>	<p>Ameren Mass Market ST*814*0001 BGN*13*2015063000001*20150630 N1*8S*AMEREN ILLINOIS*1*006936017 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*LDC REF*PC*DUAL REF*9V*Y REF*17*DAILY SE*14*0001</p> <p>Ameren Non-Mass Market ST*814*0001 BGN*13*2015063000001*20150630 N1*8S*AMEREN ILLINOIS*1*006936017 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*LDC REF*PC*DUAL REF*9V*Y REF*17*DAILY NM1*MQ*3*****32*ALL REF*LU*00000101 NM1*MQ*3*****32*ALL REF*LU*00007912 SE*18*0001</p>

Example 8 – Enrollment Request – Utility Consolidated Bill Ready UCB/POR with AMI Data Preference Identifier MONTHLY

ComEd - Electric	Ameren - Electric
ST*814*0001 BGN*13*2015063000001*20150630 N1*8S*UTILITY*1*006912345 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*LDC REF*PC*DUAL REF*9V*Y REF*17*MONTHLY SE*14*0001	Not applicable for Ameren, as Ameren only allows "DEFAULT" or "DAILY" as options for the AMI Data Preference Identifier.

Example 9 – Enrollment Request – Utility Consolidated Bill Ready UCB/POR with AMI Data Preference Identifier DAILY and Add Demand Response Indicator

ComEd – Electric	Ameren - Electric
<p>ST*814*0001 BGN*13*2015063000001*20150630 N1*8S*UTILITY*1*006912345 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*LDC REF*PC*DUAL REF*9V*Y REF*17*DAILY REF*DR*S SE*15*0001</p>	<p>Ameren Mass Market ST*814*0001 BGN*13*2015063000001*20150630 N1*8S*AMEREN ILLINOIS*1*006936017 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*LDC REF*PC*DUAL REF*9V*Y REF*17*DAILY REF*DR*S SE*15*0001</p> <p>Ameren Non-Mass Market ST*814*0001 BGN*13*2015063000001*20150630 N1*8S*AMEREN ILLINOIS*1*006936017 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*LDC REF*PC*DUAL REF*9V*Y REF*17*DAILY REF*DR*S NM1*MQ*3*****32*ALL REF*LU*00000101 NM1*MQ*3*****32*ALL REF*LU*00007912 SE*19*0001</p>

Example 10 – Enrollment with Historical Usage Request – Utility Consolidated Bill Ready UCB/POR with AMI Data Preference Identifier DAILY and Add Demand Response Indicator

ComEd - Electric	Ameren - Electric
<p>ST*814*0001 BGN*13*2015063000001*20150630 N1*8S*UTILITY*1*006912345 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE*SH*HU ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*LDC REF*PC*DUAL REF*9V*Y REF*17*DAILY REF*DR*S SE*13*0001</p>	<p>Ameren Mass Market ST*814*0001 BGN*13*2015063000001*20150630 N1*8S*AMEREN ILLINOIS*1*006936017 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE*SH*HU ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*LDC REF*PC*DUAL REF*9V*Y REF*17*DAILY REF*DR*S SE*15*0001</p> <p>Ameren Non-Mass Market ST*814*0001 BGN*13*2015063000001*20150630 N1*8S*AMEREN ILLINOIS*1*006936017 N1*SJ*SUPPLIER*9*007909111IL00 N1*8R*CUSTOMER NAME LIN*1*SH*EL*SH*CE*SH*HU ASI*7*021 REF*11*0012345600 REF*12*0312345624 REF*BLT*LDC REF*PC*DUAL REF*9V*Y REF*17*DAILY REF*DR*S NM1*MQ*3*****32*ALL REF*LU*00000101 NM1*MQ*3*****32*ALL REF*LU*00007912 SE*19*0001</p>

Note: The examples above show Utility Consolidated Bill option, but AMI Data Preference Identifier and Demand Response Identifier are valid for any bill option