Illinois

Implementation Guide For

Electronic

Data

Interchange

<u>Transaction Set</u>
ANSI ASC X12 Version 004010

814

Historical Usage Request
Version 2.1

Summary of Changes

January 6, 2009
Version 1.0

- Initial Release.

May 31, 2013
Version 2.0

- **Change Control #040** – Added requirements for Ameren Gas

October 15, 2016
Version 2.1

- **Change Control #048** – Modified requirements to allow Gas Suppliers to request Historical Interval Usage.

Implementation Notes

Transaction Reference Numbers

- 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

- 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

- Ameren Mass Market
  - 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

- 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.

814 HU Requests at Account Level Only

- The Service Point Identifier (REF*LU) was not included in the Request transaction because Ameren only allows Historical Usage to be requested at an account level. If it was provided on the Request transaction, it will be ignored.

- Service Point Numbers will be included in the Response transaction for Ameren Non-Mass Market accounts.

- All 867 Historical Usage transactions will be sent at the Service Point Level. If multiple Service Points exist, one 867 will be sent for each Service Point.

HU vs. HI

- If a RES/GS requests Historical Usage (LIN05 = "HU"), the utility will send the 867 Historical Usage transaction.

- If a RES/GS requests Historical Interval Usage (LIN05 = "HI"), they will receive the interval details as described below.

- If a RES/GS requests Historical Interval Usage (LIN05 = "HI"), and the account does not contain Interval meters, the utility will send the 867 Historical Usage transaction.

Historical Interval Usage	• Ameren allows for Historical Interval Usage to be requested via EDI and the data will be returned via an EDI 867 Historical Usage transaction including PTD Loops SU, BQ and FG. • ComEd allows for Historical Interval Usage to be requested via EDI and the 814 HU Response will contain a link where the information may be downloaded. Any applicable charges are applied to the RES non-service account.
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

<div align="right">

Functional Group ID=GE

</div>

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:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
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

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - LIN			>1	
	010	LIN	Item Identification	O	1		
	020	ASI	Action or Status Indicator	O	1		
	030	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.

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. Des.	Data Element	Name	Attributes
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~13~20130531123000001~20130531

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	BGN01	353	**Transaction Set Purpose Code**	**M**	**ID 2/2**
			Code identifying purpose of transaction set		
			13 Request		
Must Use	BGN02	127	**Reference Identification**	**M**	**AN 1/30**
			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.		
Must Use	BGN03	373	**Date**	**M**	**DT 8/8**
			Date expressed as CCYYMMDD		
			The transaction creation date - the date that the data was processed by the sender's application system.		

	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. Des.	Data Element	Name		Attributes
Must Use	**N101**	**98**	**Entity Identifier Code**		**M ID 2/3**

Code identifying an organizational entity, a physical location, property or an individual

    8S   Consumer Service Provider (CSP)

Utility

	Ref. Des.	Data Element	Name		Attributes
Must Use	**N102**	**93**	**Name**		**X AN 1/60**

Free-form name

Utility Name

	Ref. Des.	Data Element	Name		Attributes
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

	Ref. Des.	Data Element	Name		Attributes
Must Use	**N104**	**67**	**Identification Code**		**X AN 2/80**

Code identifying a party or other code

Utility D-U-N-S or D-U-N-S+4 Number

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. Des.	Data Element	Name		Attributes
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

Segment: **N1** Name **(Customer)**

Position: 040

Loop: N1   Optional

Level: Heading

Usage: Optional

Max Use: 1

Purpose: To identify a party by type of organization, name, and code

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

Semantic Notes:

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

Notes: Optional

N1~8R~CUSTOMER NAME

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N101	98	**Entity Identifier Code**	**M ID 2/3**

Code identifying an organizational entity, a physical location, property or an individual

8R   Consumer Service Provider (CSP) Customer

Customer Name

	Ref. Des.	Data Element	Name	Attributes
Must Use	N102	93	**Name**	**X AN 1/60**

Free-form name

Customer Name

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

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

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

Comments: **1** See the Data Dictionary for a complete list of IDs.

2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: Required - Only one LIN Loop will be sent.

LIN~1~SH~GAS~SH~HU
LIN~1~SH~EL~SH~HI

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	**LIN01**	**350**	**Assigned Identification**	**O**	**AN 1/20**

Alphanumeric characters assigned for differentiation within a transaction set

On the Request, identifier supplied in this element either by itself or in conjunction with the BGN02 element from the BGN segment must uniquely identify each LIN request item over time. This number will be returned on the Response transaction in the same element.

	Ref. Des.	Data Element	Name		Attributes
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

	Ref. Des.	Data Element	Name		Attributes
Must Use	**LIN03**	**234**	**Product/Service ID**	**M**	**AN 1/48**

Identifying number for a product or service

   EL   Electric
   GAS   Gas

	Ref. Des.	Data Element	Name		Attributes
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

	Ref. Des.	Data Element	Name		Attributes
Must Use	**LIN05**	**234**	**Product/Service ID**	**X**	**AN 1/48**

Identifying number for a product or service

   HI   Historical Interval Usage

   Request to obtain Historical Interval Usage

   Ameren: If the intervals are available, Ameren will send

		the 867 Historical Interval Usage transaction. ComEd: If the intervals are available, ComEd will post the file to a website and include the URL for that file on the 814 Accept Response. If the intervals are not available (e.g., the account does not have interval meters), the Utility will send an 814 Accept Response with the Status Reason Code HIU and, if available, send the 867 Historical Usage transaction with the summarized data. If Historical Usage was blocked by the customer, the Utility will send an 814 Accept Response with the Status Reason Code HUR.
	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.

Segment:	**ASI** Action or Status Indicator
Position:	020
Loop:	LIN Optional
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To indicate the action to be taken with the information provided or the status of the entity described
Syntax Notes:	
Semantic Notes:	
Comments:	
Notes:	Required
	ASI~7~029

Data Element Summary

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

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
	REF~11~1234567890

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			12 Billing Account		
			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		
			Utility Account 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

	Ref. Des.	Data Element	Name	Attributes
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	

> Gray segments are optional or dependent.

Example #1 – Historical Usage Request

Electric	Gas

ST*814*0001
BGN*13*2013033100001*20130331
N1*8S*UTILITY*1*006912345
N1*SJ*SUPPLIER*9*007909111IL00
N1*8R*CUSTOMER NAME
LIN*1*SH*EL*SH*HU
  ASI*7*029
  REF*11*0012345600
  REF*12*0312345624
SE*10*0001
	ST*814*0001
	BGN*13*2013033100001*20130331
	N1*8S*UTILITY*1*006912345
	N1*SJ*SUPPLIER*9*007909111IL00
	N1*8R*CUSTOMER NAME
	LIN*1*SH*GAS*SH*HU
	  ASI*7*029
	  REF*11*0012345600
	  REF*12*0312345624
	SE*10*0001

Example #2 – Historical Interval Usage Request

Electric	Gas

ST*814*0001
BGN*13*2013033100001*20130331
N1*8S*UTILITY*1*006912345
N1*SJ*SUPPLIER*9*007909111IL00
N1*8R*CUSTOMER NAME
LIN*1*SH*EL*SH*HI
  ASI*7*029
  REF*11*0012345600
  REF*12*0312345624
SE*10*0001
	ST*814*0001
	BGN*13*2013033100001*20130331
	N1*8S*UTILITY*1*006912345
	N1*SJ*SUPPLIER*9*007909111IL00
	N1*8R*CUSTOMER NAME
	LIN*1*SH*GAS*SH*HI
	  ASI*7*029
	  REF*11*0012345600
	  REF*12*0312345624
	SE*10*0001