Illinois

Implementation Guide For **E**lectronic **D**ata **I**nterchange

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

810

Invoice – Bill Ready UCB
Version 1.3

Summary of Changes

January 6, 2009
Version 1.0

- Initial Release.

October 24, 2009
Version 1.1

- **Change Control #001** - Removed incorrect reference in the Implementation Notes about the 824 Acceptance transaction.

- **Change Control #002** – Corrected the Transaction Structure Page to remove the NTE, add the PID (both mentioned in the change control) and also to add REF at position 120, which was not mentioned in the change control.

October 6, 2011
Version 1.2

- **Change Control #037** – Added Implementation Notes for Negative 810s, Due Date of 810, Budget Billing and Charge Lines & Characters.

October 5, 2023
Version 1.3

- **Change Control #055** – Modified SAC08, SAC09, SAC10 to be not recommended for ComEd.

Implementation Notes

Purpose

- This document is used to define the requirements of the "Bill Ready" Utility Consolidated Bill. Under this scenario, the RES calculates their own charges and sends them to the Utility. The Utility presents the consolidated bill to the customer.

Billing Options by Utility

- Ameren supports Rate Ready Utility Consolidated Billing, Bill Ready Utility Consolidated Billing, RES Consolidated Billing (Single Bill Option) and Dual Billing.

- ComEd supports Bill Ready Utility Consolidated Billing, RES Consolidated Billing (Single Bill Option) and Dual Billing.

Cross Reference between 867, 810, 820

- CPWG has established a Cross Reference Number to tie together the 867, 810 and 820 transactions for UCB/POR, where appropriate.
    - The 867 initiates the Cross Reference Number in the BPT02 field
    - The Cross Reference Number then appears in the 810 Invoice (Bill Ready and Rate Ready) in the BIG05.
    - The Cross Reference Number is finally provided in the 820 UCB Remittance Advice transaction in the REF*6O segment for UCB/POR.

Ameren Optional Segments

- The RES may optionally send the following information to the Ameren; however, Ameren will not use or validate this information.
    - RES Account Number
    - Utility Account Number
    - Service Point Identifier
    - Bill Presenter
    - Bill Calculator
    - Customer
    - Service Period Start Date
    - Service Period End Date

Implementation of Service Point (Ameren)

- Ameren Mass Market
    - The Service Point Number will be sent in REF*LU.

- Ameren Non-Mass Market
    - The Service Point Number will be sent in REF*LU.

Cancel/Rebill

- In the event that the utility needs to cancel/rebill due to usage, the RES charges will automatically be canceled.

    - Utility sends 867 Cancel

    - There will **not** be an associated 810 Cancel. The RES, if necessary, must set their system to automatically cancel the charges when an 867 Cancel Usage is received.

- In the event that the RES needs to cancel/rebill their own charges, the RES may send an 810 Cancel (BIG08=17) followed by an 810 Reissue (BIG08=18). If the cancel is not sent first, the utility will reject the transaction because there is not an "open" 867 to which charges can be applied.

Missed Bill Window	• If the RES sends an 810 outside of the Bill Window, the utility will send an 824 Application Advice, rejecting the transaction. The RES will need to wait for the next open Bill Window to send the 810 transaction.
	• The Bill Window will remain open for the full period or until all 810s are received for the "open" 867s. For example, if the RES missed a bill window the prior period and sends their current period charges prior to the previous period charges, the bill window will remain open until both 810s are received or the bill window expires.
Negative 810s	• Ameren: Not Allowed
	• ComEd: Not Allowed
Due Date of 810	• The 810 is due on the 3rd business day after creation of the 867. Please refer to each utility for the cutoff time.
Budget Billing	• Customers may remain on budget billing and the Utility will budget supplier charges. The Utility will pay the Supplier based on actual charges submitted on the 810.
Charge Lines & Characters	• Ameren: Allows up to 7 charge lines (SAC segments) and 32 characters in the Charge Description (SAC15). If provided, the SAC08 (Rate), SAC09 (Unit of Measure) and SAC10 (Quantity) will print on the bill.
	• ComEd: Allows up to 7 charge lines (SAC segments) and 80 characters in the Charge Description (SAC15). SAC08 (Rate), SAC09 (Utility of Measure) and SAC10 (Quantity) are not recommended and will not be printed on the bill.
824 Application Advice for 810 Bill Ready	• There are three potential responses to an 810 Bill Ready transaction.
	o 824 Rejection for Cause – Sent by the Utility if there is an error on the 810 Bill Ready Invoice or the RES missed the bill window.
	o 824 Confirmation – Sent by the Utility when the customer bill is created and informs the RES of the amount billed to the customer for that 810.
	o 824 No Current Period RES Charges – Sent by the Utility when the customer bill is created and does not include current period RES charges for a customer set up in the Utility system as UCB – Bill Ready.
Purchase of Receivables	• At this time, the Utility Consolidated Billing and Purchase of Receivables are tied together. An account cannot participate in one program without also participating in the other. Therefore, no Balance segments have been included in this Implementation Guideline.

810 Invoice

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Functional Group ID=IN

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Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

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	BIG	Beginning Segment for Invoice	M	1		
	050	REF	Reference Identification	O	12		
			LOOP ID - N1			200	
	070	N1	Name	O	1		
	160	PID	Product/Item Description	O	200		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - IT1			200000	
	010	IT1	Baseline Item Data (Invoice)	O	1		
	120	REF	Reference Identification	O	>1		
	150	DTM	Date/Time Reference	O	10		
			LOOP ID - SLN			1000	
	200	SLN	Subline Item Detail	O	1		
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	25		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	TDS	Total Monetary Value Summary	M	1		
	070	CTT	Transaction Totals	O	1		n1
M	080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

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~810~000000001		

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	
			810 Invoice	
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:		**BIG** Beginning Segment for Invoice	
Position:	020		
Loop:			
Level:	Heading		
Usage:	Mandatory		
Max Use:	1		
Purpose:	To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates		
Syntax Notes:			
Semantic Notes:	**1**	BIG01 is the invoice issue date.	
	2	BIG03 is the date assigned by the purchaser to purchase order.	
	3	BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.	
Comments:	**1**	BIG07 is used only to further define the type of invoice when needed.	
Notes:		Required	

BIG~20090101~1234567890-20090101.001~~~2009010100000-867.00001~~ME~00

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	**BIG01**	**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.		
Must Use	**BIG02**	**76**	**Invoice Number**		**M AN 1/22**
			Identifying number assigned by issuer		
			A unique transaction identification number assigned by the originator of this transaction. This number must be unique over time. This number will be sent in the RMR Loop REF*IK of the 820 and/or the OTI03 of the 824.		
			Invoice 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	**BIG05**	**328**	**Release Number**		**O AN 1/30**
			Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction		
			The cross-reference number originally transmitted in the 867 in the BPT02 must be sent in the BIG05 of the 810 and in the RMR loop REF~6O of the 820.		
			Note that the cross-reference number from the original 867 in the BPT02 is used regardless of whether this 810 is an Original (BIG08=00), Cancel (BIG08=17) or Reissue (BIG08=18) transaction.		
Must Use	**BIG07**	**640**	**Transaction Type Code**		**O ID 2/2**
			Code specifying the type of transaction		
			ME	Memorandum	
				Regular Bill	
Must Use	**BIG08**	**353**	**Transaction Set Purpose Code**		**O ID 2/2**
			Code identifying purpose of transaction set		
			00	Original	
			17	Cancel, to be Reissued	
				Reversal - used when 810 cancellation is not related to usage.	
			18	Reissue	
				Used in combination with code 17 - Reversal, to re-bill the charges that were previously reversed.	

	Segment:	**REF** Reference Identification (RES Account Number)

Position:	050	
Loop:		
Level:	Heading	
Usage:	Optional	
Max Use:	12	
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	
				RES 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 Account Number		

Segment:	**REF** Reference Identification (Utility Account Number)
Position:	050
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	12
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: Optional - The Utility Account Number will not be used by Ameren; Ameren will use the Cross Reference Number only to validate and process this transaction. ComEd: 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:	**REF** Reference Identification (Service Point Identifier)
	Position:	050
	Loop:	
	Level:	Heading
	Usage:	Optional
	Max Use:	12
	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: Optional - The Service Point Identifier will not be used by Ameren; Ameren will use the Cross Reference Number only to validate and process this transaction. ComEd: Not Used
		Ameren currently uses an 8-digit Service Point number. All 8 digits, including leading zeros must be provided.
		REF~LU~00721660

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		
			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 (Original Invoice Number)
Position:	050
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	12
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 on 810 Cancel (BIG08 = 17), otherwise Not Used
	REF~OI~654967897120090101

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		
			OI Original Invoice 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		
			Original Invoice Number (BIG02) of the transaction being canceled.		

Segment:	**REF** Reference Identification (Bill Presenter)	
Position:	050	
Loop:		
Level:	Heading	
Usage:	Optional	
Max Use:	12	
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: Optional - The Bill Presenter segment will not be used by Ameren; Ameren will process the inbound 810 automatically as a Bill Ready UCB 810. ComEd: Required REF~BLT~LDC	

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	
			BLT Billing Type	
			Bill Presenter	
Must Use	REF02	127	**Reference Identification**	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			LDC Utility Presents the Consolidated Bill to the Customer	

Segment:	**REF** Reference Identification (Bill Calculator)
Position:	050
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	12
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: Optional - The Bill Calculator segment will not be used by Ameren; Ameren will process the inbound 810 automatically as a Bill Ready UCB 810. ComEd: Required REF~PC~DUAL

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		
			PC Production Code		
			Bill Calculator		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			DUAL Each party calculates its own charges		

Segment:		**N1** Name (Utility)		
Position:		070		
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

Must Use	N102	93	**Name**		X AN 1/60

Free-form name

Utility 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

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

	Segment:	**N1** Name (Retail Electric Supplier)
	Position:	070
	Loop:	N1 Optional
	Level:	Heading
	Usage:	Optional
	Max Use:	1
	Purpose:	To identify a party by type of organization, name, and code
	Syntax Notes:	1 At least one of N102 or N103 is required.
		2 If either N103 or N104 is present, then the other is required.
	Semantic Notes:	
	Comments:	1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
		2 N105 and N106 further define the type of entity in N101.
	Notes:	Required
		N1~SJ~RES COMPANY~1~049612345

Data Element Summary

	Ref. 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)		
Must Use	N102	93	**Name**	**X**	**AN 1/60**
			Free-form name		
			RES 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 D-U-N-S or D-U-N-S+4 Number		

	Segment:	**N1** Name (Customer)
	Position:	070
	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:	Ameren: Optional - The Customer Name will not be used by Ameren; Ameren will use the Cross Reference Number only to validate and process this transaction.
		ComEd: Required
		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	
Must Use	N102	93	**Name**	**X AN 1/60**
			Free-form name	
			Customer Name	

Segment:	**PID** Product/Item Description			

Segment:	**PID** Product/Item Description
Position:	160
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	200
Purpose:	To describe a product or process in coded or free-form format
Syntax Notes:	1 If PID04 is present, then PID03 is required.
	2 At least one of PID04 or PID05 is required.
	3 If PID07 is present, then PID03 is required.
	4 If PID08 is present, then PID04 is required.
	5 If PID09 is present, then PID05 is required.
Semantic Notes:	1 Use PID03 to indicate the organization that publishes the code list being referred to.
	2 PID04 should be used for industry-specific product description codes.
	3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
	4 PID09 is used to identify the language being used in PID05.
Comments:	1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
	2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
	3 PID07 specifies the individual code list of the agency specified in PID03.
Notes:	Optional to provide Bill Messages, otherwise, Not Used.

Ameren allows two 142-character Bill Messages.
ComEd allows two 80-character Bill Messages.

PID06 will be used to distinguish between Bill Message 1 (PID06=R1) and Bill Message 2 (PID06=R2).

PID07 will be used to distinguish between the first 80 characters of either message and the remaining characters if necessary. The first 80 characters will be sent on line 1 (PID07=1) and the remainder on line 2 (PID07=2). Note that ComEd only allows PID07=1.

The example below shows two messages, R1 and R2. The second message exceeds 80 characters and therefore requires two PID segments (PID07 = 1 and 2 respectively).

  PID~F~EU~~Thank you for your business!~R1~1
  PID~F~EU~~Choosing clean electricity is one of the easiest things you can do to make a dif~R2~1
  PID~F~EU~~ference for the environment.~R2~2

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	PID01	349	**Item Description Type**	M	ID 1/1
			Code indicating the format of a description		
			F Free-form		
Must Use	PID03	559	**Agency Qualifier Code**	X	ID 2/2
			Code identifying the agency assigning the code values		
			EU Electric Utilities		
Must Use	PID05	352	**Description**	X	AN 1/80
			A free-form description to clarify the related data elements and their content		
			Bill Message Text		
Must Use	PID06	752	**Surface/Layer/Position Code**	O	ID 2/2
			Code indicating the product surface, layer or position that is being described		

		R1		Relative Position 1		
				Bill Message 1		
		R2		Relative Position 2		
				Bill Message 2		
Must Use	**PID07**	**822**	**Source Subqualifier**		**O**	**AN 1/15**

A reference that indicates the table or text maintained by the Source Qualifier

This element will be used to indicate the order for the print sequence for each bill message.

1	First Portion of the Bill Message (Ameren and ComEd)
2	Remaining Portion of the Bill Message (Ameren Only)

Segment:	**IT1** Baseline Item Data		
Position:	010		
Loop:	IT1 Optional		
Level:	Detail		
Usage:	Optional		
Max Use:	1		
Purpose:	To specify the basic and most frequently used line item data for the invoice and related transactions		
Syntax Notes:	1 If any of IT102 IT103 or IT104 is present, then all are required.		
	2 If either IT106 or IT107 is present, then the other is required.		
	3 If either IT108 or IT109 is present, then the other is required.		
	4 If either IT110 or IT111 is present, then the other is required.		
	5 If either IT112 or IT113 is present, then the other is required.		
	6 If either IT114 or IT115 is present, then the other is required.		
	7 If either IT116 or IT117 is present, then the other is required.		
	8 If either IT118 or IT119 is present, then the other is required.		
	9 If either IT120 or IT121 is present, then the other is required.		
	10 If either IT122 or IT123 is present, then the other is required.		
	11 If either IT124 or IT125 is present, then the other is required.		
Semantic Notes:	1 IT101 is the purchase order line item identification.		
Comments:	1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.		
	2 IT106 through IT125 provide for ten 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		
	IT1~1~~~~~SV~ELECTRIC~C3~RATE		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**IT101**	**350**	**Assigned Identification**	**O AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set	
			Sequential Line Item Counter	
Must Use	**IT106**	**235**	**Product/Service ID Qualifier**	**X ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			SV Service Rendered	
Must Use	**IT107**	**234**	**Product/Service ID**	**X AN 1/48**
			Identifying number for a product or service	
			ELECTRIC	
Must Use	**IT108**	**235**	**Product/Service ID Qualifier**	**X ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			C3 Classification	
Must Use	**IT109**	**234**	**Product/Service ID**	**X AN 1/48**
			Identifying number for a product or service	
			RATE Charges at a Utility Rate Class Level	

	Segment:	**REF** Reference Identification (RES Product Name)
	Position:	120
	Loop:	IT1 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: Optional

Ameren: Optional
ComEd: Not Used

On the Ameren customer bill, they have allowed a text line for the RES to include a Product Name above their charges. This name may be up to 32 characters and if not populated will be left blank on the customer's bill.

REF~PG~~GREEN PRODUCT

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		
			PG	Product Group	
			RES Product Name		
Must Use	REF03	352	**Description**		**X AN 1/80**
			A free-form description to clarify the related data elements and their content		
			RES Product Name - Maximum 32 Characters		

	Segment:	**DTM** Date/Time Reference (Service Period Start Date)
	Position:	150
	Loop:	IT1 Optional
	Level:	Detail
	Usage:	Optional
	Max Use:	10
	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:	Ameren: Optional - The Service Period Dates will not be used by Ameren; Ameren will use the Cross Reference Number only to validate and process this transaction.
ComEd: Required

The full service period must match the dates in the PTD~SU Loop of the corresponding 867 Monthly Usage transaction.

DTM~150~20091115 |

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
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:	**DTM** Date/Time Reference (Service Period End Date)	
Position:	150	
Loop:	IT1 Optional	
Level:	Detail	
Usage:	Optional	
Max Use:	10	
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:	Ameren: Optional - The Service Period Dates will not be used by Ameren; Ameren will use the Cross Reference Number only to validate and process this transaction. ComEd: Required	

The full service period must match the dates in the PTD~SU Loop of the corresponding 867 Monthly Usage transaction.

DTM~151~20091215

Data Element Summary

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

Segment:	**SLN** Subline Item Detail	
Position:	200	
Loop:	SLN Optional	
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify product subline detail item data	

Syntax Notes:
1. If either SLN04 or SLN05 is present, then the other is required.
2. If SLN07 is present, then SLN06 is required.
3. If SLN08 is present, then SLN06 is required.
4. If either SLN09 or SLN10 is present, then the other is required.
5. If either SLN11 or SLN12 is present, then the other is required.
6. If either SLN13 or SLN14 is present, then the other is required.
7. If either SLN15 or SLN16 is present, then the other is required.
8. If either SLN17 or SLN18 is present, then the other is required.
9. If either SLN19 or SLN20 is present, then the other is required.
10. If either SLN21 or SLN22 is present, then the other is required.
11. If either SLN23 or SLN24 is present, then the other is required.
12. If either SLN25 or SLN26 is present, then the other is required.
13. If either SLN27 or SLN28 is present, then the other is required.

Semantic Notes:
1. SLN01 is the identifying number for the subline item.
2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments:
1. See the Data Element Dictionary for a complete list of IDs.
2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3. SLN09 through SLN28 provide for ten 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 - Each SLN loop will only contain one SAC. Multiple charges/allowances require multiple SLN loops. The Illinois Market allows for only 7 charge line items, therefore only 7 SLN loops may be sent.
SLN~1~~A

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	SLN01	350	Assigned Identification	M AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	
			Sequential Line Item Counter	
Must Use	SLN03	662	Relationship Code	M ID 1/1
			Code indicating the relationship between entities	
			A Add	

Segment:	**SAC** Service, Promotion, Allowance, or Charge Information	
Position:	230	
Loop:	SLN Optional	
Level:	Detail	
Usage:	Optional	
Max Use:	25	
Purpose:	To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge	

Syntax Notes:
1. At least one of SAC02 or SAC03 is required.
2. If either SAC03 or SAC04 is present, then the other is required.
3. If either SAC06 or SAC07 is present, then the other is required.
4. If either SAC09 or SAC10 is present, then the other is required.
5. If SAC11 is present, then SAC10 is required.
6. If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. If SAC14 is present, then SAC13 is required.
8. If SAC16 is present, then SAC15 is required.

Semantic Notes:
1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
3. SAC08 is the allowance or charge rate per unit.
4. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
5. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
6. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
7. SAC16 is used to identify the language being used in SAC15.

Comments:
1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes: Required - Invoice line item charge or allowance.

Ameren: Rate (SAC08), Unit of Measure (SAC09) and Quantity (SAC10) will be displayed on the customer's bill along with the text provided in SAC15 and the Amount provided in SAC05. If SAC08, 09, 10 are not provided, those areas will be left blank on the customer's bill.
ComEd: SAC08, 09 and 10 should not be sent. Only SAC15 will print on the bill.

SAC~C~~EU~TPI002~10000~~~.1~KH~1000~~~1~~ENERGY CHARGE

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	SAC01	248	**Allowance or Charge Indicator**	M	ID 1/1
			Code which indicates an allowance or charge for the service specified		
			C Charge		
Must Use	SAC03	559	**Agency Qualifier Code**	X	ID 2/2
			Code identifying the agency assigning the code values		
			EU Electric Utilities		
Must Use	SAC04	1301	**Agency Service, Promotion, Allowance, or Charge Code**	X	AN 1/10
			Agency maintained code identifying the service, promotion, allowance, or charge		

			TPI002	RES Charges		

Must Use	**SAC05**	**610**	**Amount**		**O**	**N2 1/15**

Monetary amount

This field must be signed if it is negative. The SAC08 multiplied by the SAC10 must always equal the SAC05.

Dep	**SAC08**	**118**	**Rate**		**O**	**R 1/9**

Rate expressed in the standard monetary denomination for the currency specified

This field must be signed if it is negative. The SAC08 multiplied by the SAC10 must always equal the SAC05.

Ameren: Rate (SAC08), Unit of Measure (SAC09) and Quantity (SAC10) must all be provided, or none may be provided for each charge.
ComEd: Not Used

Dep	**SAC09**	**355**	**Unit or Basis for Measurement Code**		**X**	**ID 2/2**

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Ameren: Rate (SAC08), Unit of Measure (SAC09) and Quantity (SAC10) must all be provided, or none may be provided for each charge.
ComEd: Not Used

	K1	Kilowatt Demand
		kW
	K3	Kilovolt Amperes Reactive Hour
		kVARh
	KH	Kilowatt Hour
		kWh

Dep	**SAC10**	**380**	**Quantity**		**X**	**R 1/15**

Numeric value of quantity

Ameren: Rate (SAC08), Unit of Measure (SAC09) and Quantity (SAC10) must all be provided, or none may be provided for each charge.
ComEd: Not Used

Must Use	**SAC13**	**127**	**Reference Identification**		**X**	**AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Print Sequencing Number - Used to assign a print sequencing number to determine the order that the line item will appear on the bill.

Must Use	**SAC15**	**352**	**Description**		**X**	**AN 1/80**

A free-form description to clarify the related data elements and their content

Ameren allows 32 characters.
ComEd allows 80 characters.

	Segment:	**TDS** Total Monetary Value Summary
	Position:	010
	Loop:	
	Level:	Summary
	Usage:	Mandatory
	Max Use:	1
	Purpose:	To specify the total invoice discounts and amounts
	Syntax Notes:	
	Semantic Notes:	**1** TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
		2 TDS02 indicates the amount upon which the terms discount amount is calculated.
		3 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
		4 TDS04 indicates the total amount of terms discount.
	Comments:	**1** TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.
	Notes:	Required
		TDS~10000

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	TDS01	610	**Amount**	M N2 1/15
			Monetary amount	
			The total amount due for this invoice which must equal the algebraic sum of the amounts in the SAC05 segments. This field must be signed if it is negative.	

	Segment:	**CTT** Transaction Totals

Segment: **CTT** Transaction Totals
Position: 070
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.
2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.
Notes: Required

CTT~1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	CTT01	354	**Number of Line Items**	M N0 1/6

Total number of line items in the transaction set

The number of IT1 segments.

Segment:	**SE** Transaction Set Trailer	
Position:	080	
Loop:		
Level:	Summary	
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~25~000000001	

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	

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```
ST*810*0001
BIG*20080411*045604200520080411***867-00001.20080411**ME*00
REF*11*0456042005
REF*12*21803308016592*GROUPX
REF*LU*00983019
REF*BLT*LDC
REF*PC*DUAL
N1*8S*UTILITY*1*006912345
N1*SJ*SUPPLIER*9*007909111IL00
N1*8R*CUSTOMER NAME
PID*F**EU**Thank you for your business!*R1*1
PID*F**EU**Choosing clean electricity is one of the easiest things you can do to make a dif*R2*1
PID*F**EU**ference for the environment.*R2*2
IT1*1*****SV*ELECTRIC*C3*RATE
  REF*PG**GREEN PRODUCT
  DTM*150*20080310
  DTM*151*20080409
  SLN*1**A
    SAC*C**EU*TPI002*-1000********1**ADJUSTMENT FIRST MONTH CREDIT
  SLN*2**A
    SAC*C**EU*TPI002*595********2**BASIC CUSTOMER CHARGE
  SLN*3**A
    SAC*C**EU*TPI002*556***.0555*K1*100.1***3**DEMAND CHARGE
  SLN*4**A
    SAC*C**EU*TPI002*49320***.0685*KH*7200***4**ENERGY CHARGE
TDS*49471
CTT*1
SE*28*0001
```

Example ComEd