Ilinois

Implementation

Guide

For

Electronic

Data

Interchange

Transaction Set
ANSI ASC X12 Version 004010

810

Invoice – Rate Ready UCB

Version 1.2

Summary of Changes

January 6, 2009 Version 1.0

January 6, 2011 Version 1.1

> June 28, 2023 Version 1.2

- Initial Release.
- Change Control #016 Updated POR Eligibility Group Codes.
- Change Control #054 Updated the Purpose verbiage in the Implementation Notes section to make it known that this transaction may now also be used by the Utility to communicate supply charges to the RES for on-site net metered service points that are billed via SBO or Dual Billing.

Implementation Notes

Purpose

• This document is used to define the requirements of the "Rate Ready" Utility Consolidated Bill. Under this scenario, the Utility calculates the RES's portion of the bill using rates provided in advance by the RES. The Utility presents the consolidated bill to the customer.

Please note that the EDI 810 Rate Ready transaction can also be used by the Utility to communicate supply charges to the RES when the RES has set up a default rate or has assigned a rate code to an SBO or Dual billed account that participates in on-site net metering.

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.

Implementation of Service Point (Ameren)

- Ameren Mass Market
 - o The Service Point Number will be sent in REF*LU.
- Ameren Non-Mass Market
 - o 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
 - Utility sends corresponding 810 Cancel
- The values will be identical in sign to the original bill. The differences include the BIG08, which will show the cancel code "01", and an additional segment to provide the Original Invoice Number (REF~OI).
- The cancel must always be sent before the rebill, but may occur on the same day within the same ISA.
- The rebill will always be coded as an original (BIG08 = "00") and will have no reference to the original or cancel 810s.

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.

Budget Billing

• Not supported.

810 Invoice

Functional Group ID=

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:

M	Pos. <u>No.</u> 010	Seg. <u>ID</u> ST	<u>Name</u> Transaction Set Header	Req. <u>Des.</u> M	Max.Use	Loop <u>Repeat</u>	Notes and Comments
M	020	BIG	Beginning Segment for Invoice M 1				
	050	REF	Reference Identification	O	12		
			LOOP ID - N1			200	
	070	N1	Name	O	1		
	130	ITD	Terms of Sale/Deferred Terms of Sale	О	>1		
	160	PID	Product/Item Description	O	200		

Detail:

Pos. <u>No.</u>	Seg. <u>ID</u>	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
1101	<u>10</u>	LOOP ID - IT1	Desi	Humose	200000	Comments
010	IT1	Baseline Item Data (Invoice)	О	1		
120	REF	Reference Identification	O	>1		
150	DTM	Date/Time Reference	O	10		
		LOOP ID - SLN			1000	
200	SLN	Subline Item Detail	О	1		
230	SAC	Service, Promotion, Allowance, or Charge Information	0	25		

Summary:

	Pos.	Seg.		Req.		Loop	Notes and
	No.	ID	<u>Name</u>	Des.	Max.Use	Repeat	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

Must Use	Ref. <u>Des.</u> ST01	Data Element 143	Name Transaction Set Identifier Code	Attr M	ributes ID 3/3
			Code uniquely identifying a Transaction Set 810 Invoice		
Must Use	ST02	329	Transaction Set Control Number		AN 4/9
			Identifying control number that must be unique within the translutional group assigned by the originator for a transaction set.		ion 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:

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 Elem	ent Summary				
	Ref.	Data						
	Des.	Element	<u>Name</u>			<u>ributes</u>		
Must Use	BIG01	373	Date		M	DT 8/8		
			Date expressed as C	CCYYMMDD				
				late that appears on the customer's invoice	.			
Must Use	BIG02	76	Invoice Number	nvoice Number				
			Identifying number	assigned by issuer				
			A unique transaction	A unique transaction identification number assigned by the originator of this				
				umber must be unique over time. This num		vill be sent in		
			the RMR Loop REI	F*IK of the 820 and/or the OTI03 of the 8	24.			
			Invision Numbers w	ill only contain unnanged letters (A to 7)	طن من	ta (0 ta 0)		
				rill only contain uppercase letters (A to Z) ods (.). Note that all other characters (spacetimes)	_			
			etc.) must be exclude	· · · · · · · · · · · · · · · · · · ·	.c.s, u	naciscores,		
Must Use	BIG05	328	Release Number	·				
			Number identifying	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 R	EF~6	O of the 820.		
			For a cancelled inve	oica the cross reference number originally	ı, tron	emitted in		
				For a cancelled invoice, the cross-reference number originally transmitted in the BPT02 of the cancelled usage transaction must be sent in the BIG05 of the				
			810.	anconed usage transaction must be sent in	the L	roos or the		
Must Use	BIG07	640	Transaction Type	Code	O	ID 2/2		
			Code specifying the	e type of transaction				
			FE	Memorandum, Final Bill				
				Designates a final bill for the customer	for th	e specified		
				RES.				
			ME	Memorandum				
				Regular Bill				
Must Use	BIG08	353	Transaction Set Po	urpose Code	O	ID 2/2		
			Code identifying pu	rpose of transaction set				
			00	Original				
			01	Cancellation				

 $\pmb{REF} \ \ \textbf{Reference Identification (RES Account Number)}$ **Segment:**

Position:

Loop:

Level: Heading Optional Usage: Max Use: 12

Purpose: To specify identifying information

Syntax Notes: At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required. If either C04005 or C04006 is present, then the other is required. 3

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

Notes: Required if provided on the 814 Enrollment or 814 Change transactions. REF~11~1234567890

Must Use	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualifier	Attı M	ributes 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					

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

050 **Position:**

Loop:

Level: Heading Usage: Optional Max Use: 12

Purpose:

To specify identifying information

Syntax Notes: At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required. If either C04005 or C04006 is present, then the other is required. 3

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~GROUPA

	Ref.	Data					
	Des.	Element	<u>Name</u>		Attı	<u>ributes</u>	
Must Use	REF01	128	Reference Identi	ification Qualifier	M	ID 2/3	
			Code qualifying t	the Reference Identification			
			12	Billing Account			
				Utility Account Number			
Must Use	REF02	127	Reference Identi	ification	X	AN 1/30	
				nation as defined for a particular Transaction Reference Identification Qualifier Number	Set	or as	
Must Use	REF03	352	Description		X	AN 1/80	
			A free-form description to clarify the related data elements and their content				
			This code indicate	es the current class of customer in regards to	the l	POR	
			Eligibility groups	s as of the time the transaction is sent.			
			GROUPA	POR Eligibility Group A			
				Ameren: Residential POR Eligible Acco	ounts		
			GROUPB	POR Eligibility Group B			
				Ameren: Commercial Mass Market POI Accounts	R Elig	gible	
			GROUPC POR Eligibility Group C				
			Ameren: Non-Mass Market POR Eligible Accoun				
			NONPOR	Account Not Eligible for POR			

 ${f REF}$ Reference Identification (Service Point Identifier) **Segment:**

Position: 050

Loop:

Level: Heading Optional Usage: Max Use: 12

Purpose: To specify identifying information

127

Syntax Notes: At least one of REF02 or REF03 is required.

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:

REF02

Must Use

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

Notes: Required

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. Data Des. **Element** Name **Attributes Must Use** REF01 **Reference Identification Qualifier** M ID 2/3 128 Code qualifying the Reference Identification LU Location Number Service Point Identifier

> X AN 1/30 Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

Service Point Identifier

Reference Identification

 $\textbf{Segment:} \quad \textbf{REF} \,\, \textbf{Reference Identification (Original Invoice Number)}$

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.

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

Semantic Notes: Comments:

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

Notes: Required on 810 Cancel (BIG08 = 01), otherwise Not Used

REF~OI~654967897120090101

Must Use	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference Ide	ntification Qualifier	Attı M	ributes ID 2/3
			Code qualifyin	g the Reference Identification		
			OI	Original Invoice Number		
Must Use	REF02	127	Reference Ide	ntification	X	AN 1/30
			specified by th	rmation as defined for a particular Transaction e Reference Identification Qualifier the Number (BIG02) of the transaction being c		

 $\textbf{Segment:} \quad \textbf{REF} \ \ \textbf{Reference Identification (Bill Presenter)}$

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.

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: Comments:

REF02

Must Use

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

Notes: Required

REF~BLT~LDC

127

Data Element Summary

Ref. Data
Des. Element
Must Use

REF01

128

Reference Identification Qualifier

Code qualifying the Reference Identification
BLT

Billing Type
Bill Presenter

Reference Identification X AN 1/30 Reference information as defined for a particular Transaction Set or as

and if a discrete Defense a Libertification Oscilifica

specified by the Reference Identification Qualifier

LDC Utility Presents the Consolidated Bill to the Customer

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.

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: Comments:

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

Notes: Required

REF~PC~LDC

Data Element Summary

Must Use	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference Identifi	ication Qualifier	Attı M	ributes ID 2/3
			Code qualifying the	Code qualifying the Reference Identification		
			PC	Production Code		
				Bill Calculator		
Must Use	REF02	127	Reference Identifi	cation	X	AN 1/30

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

LDC Utility Calculates the RES Charges

Segment: ${f REF}$ Reference Identification (Payment Option)

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.

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: Comments:

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

Notes: Required

REF~9V~Y

Data Element Summary

Ref. Data **Name** Des. **Element Attributes Must Use** REF01 128 **Reference Identification Qualifier** 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** 127 REF02 **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 is not part of the POR Program
Y Customer is part of the POR Program

 $\textbf{Segment:} \qquad \pmb{N1} \ \ \textbf{Name} \ (\textbf{Utility})$

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.

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.

N105 and N106 further define the type of entity in N101.

Notes: Required

N1~8S~UTILITY NAME~1~007909411

			Data Elem	ciic Suiiiiiai y		
Must Use	Ref. <u>Des.</u> N101	Data <u>Element</u> 98	<u>Name</u> Entity Identifier Co	ode	Attr M	ributes ID 2/3
			Code identifying an individual 8S			
				Utility		
Must Use	N102	93	Name		X	AN 1/60
			Free-form name			
			Utility Name			
Must Use	N103	66	Identification Code	e Qualifier	X	ID 1/2
			Code designating the Code (67)	e system/method of code structure used for	or Ide	entification
			1	D-U-N-S Number, Dun & Bradstreet		
			9	D-U-N-S+4, D-U-N-S Number with Fou	ır Ch	aracter
				Suffix		
Must Use	N104	67	Identification Code	9	X	AN 2/80
			Code identifying a p	party or other code		
Utility D-U-N-S or D-U-N-S+4 Number						

 ${\bf Segment:} \qquad {\bf N1} \ \ {\bf Name} \ ({\bf Retail} \ {\bf Electric} \ {\bf Supplier})$

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

	Ref.	Data Element	Name	ent Summary	A +++	ributes
Must Use	<u>Des.</u> N101	98	Entity Identifier C	ode		ID 2/3
			Code identifying an individual SJ	organizational entity, a physical location, Service Provider	prop	perty or an
				Retail Electric Supplier (RES)		
Must Use	N102	93	Name		X	AN 1/60
			Free-form name			
			RES Name			
Must Use	N103	66	Identification Code	e Qualifier	X	ID 1/2
			Code designating the Code (67)	e system/method of code structure used for	or Ide	entification
			1	D-U-N-S Number, Dun & Bradstreet		
			9	D-U-N-S+4, D-U-N-S Number with Fou	ır Ch	aracter
				Suffix		
Must Use	N104	67	Identification Code	2	X	AN 2/80
			Code identifying a p	party or other code		
	RES D-U-N-S or D-U-N-S+4 Number					

 $\textbf{Segment:} \quad N1 \ \text{Name (Customer)}$

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.

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.

N105 and N106 further define the type of entity in N101.

Notes: Required

N1~8R~CUSTOMER NAME

Must Use	Ref. <u>Des.</u> N101	Data <u>Element</u> 98	Name Entity Identifier Code Code identifying an organizational entity, a physical location, individual SP Consumer Service Provider (CSP) Custo		M , proj	•
			8R	Consumer Service Provider (CSP) Customer Name	omer	
				Customer Name		
Must Use	N102	93	Name		X	AN 1/60
			Free-form name			
			Customer Name			

Segment: ITD Terms of Sale/Deferred Terms of Sale

Position: 130

Loop:

Level: Heading Usage: Optional Max Use: >1

Purpose: To specify terms of sale

Syntax Notes: 1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.

2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.

If ITD09 is present, then at least one of ITD10 or ITD11 is required.

Semantic Notes: 1 ITD15 is the percentage applied to a base amount used to determine a late payment

charge.

Comments: 1 If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or

ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

Notes: Required

ITD~~~~20100125

Data Element Summary

Ref. Data

Des. Element Name

Must Use ITD06 446 Terms Net Due Date

Attributes
O DT 8/8

Date when total invoice amount becomes due expressed in format

CCYYMMDD

Payment Due Date for the Customer

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: If PID04 is present, then PID03 is required.

- 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.
- PID08 describes the physical characteristics of the product identified in PID04. A 3 "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- PID09 is used to identify the language being used in PID05.

Comments:

- 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.
- Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- PID07 specifies the individual code list of the agency specified in PID03.

Notes:

Required if RES included Messages on the Portal, otherwise, Not Used.

Ameren allows two 142-character bill messages to be included on the customer bill. Multiple PID segments will be used to send the 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).

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

	Ref.	Data		
	Des.	Element	<u>Name</u>	<u>Attributes</u>
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 elem	nents 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 Relative Position 2

R2 Relative Position
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

2 Remaining Portion of the Bill Message

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.
- 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.
- 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: Comments: 1 IT101 is the purchase order line item identification.

1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.

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		
Must Use	Ref. <u>Des.</u> IT101	Data <u>Element</u> 350	Name Assigned Identification	Attı O	ributes AN 1/20
			Alphanumeric characters assigned for differentiation with	in a trans	saction 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 numbe Product/Service ID (234) SV Service Rendered	r used in	1
Must Use	IT107	234	Product/Service ID	\mathbf{X}	AN 1/48
			Identifying number for a product or service ELECTRIC		
Must Use	IT108	235	Product/Service ID Qualifier	\mathbf{X}	ID 2/2
			Code identifying the type/source of the descriptive numbe Product/Service ID (234) C3 Classification	r used in	1
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: ${f REF}$ Reference Identification (RES Rate Code)

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.

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

Semantic Notes: Comments:

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

Notes: Required

REF~RB~ABC123

REF~RB~ABC123~GREEN POWER

Must Use	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Ide	entification Qualifier	Attı M	ributes ID 2/3		
			Code qualifyin	g the Reference Identification				
			RB	Rate code number				
				RES Rate Code				
Must Use	REF02	127	Reference Ide	entification	X	AN 1/30		
				rmation as defined for a particular Transaction e Reference Identification Qualifier	Set	or as		
			RES Rate Cod	e				
	REF03	352	Description		X	AN 1/80		
			A free-form de	A free-form description to clarify the related data elements and their content				
			Rate Code Des	scription				

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.

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: Comments:

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

Notes: Ameren: Required if populated by the RES

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.	Data				
	Des.	Element	<u>Name</u>		Attı	<u>ibutes</u>
Must Use	REF01	128	Reference Identifi	ication Qualifier	M	ID 2/3
			Code qualifying th	e 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

 $\textbf{Segment:} \quad \textbf{DTM} \,\, \textbf{Date/Time Reference (Service Period Start Date)}$

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: Required

The full service period must match the dates in the PTD~SU Loops of the corresponding

867 Monthly Usage or 867 Monthly Interval Usage transaction.

DTM~150~20091115

Must Use	Ref. <u>Des.</u> DTM01	Data Element 374	<u>Name</u> Date/Time Qualif	äer	Attı M	ributes ID 3/3
			Code specifying ty 150	pe of date or time, or both date and time Service Period Start		
Must Use	DTM02	373	Date Date expressed as Service Period Sta		X	DT 8/8

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: Required

The full service period must match the dates in the PTD~SU Loops of the corresponding

867 Monthly Usage or 867 Monthly Interval Usage transaction.

DTM~151~20091215

Must Use	Ref. <u>Des.</u> DTM01	Data Element 374	<u>Name</u> Date/Time Qualifier		Attr M	ributes ID 3/3
			1	date or time, or both date and time rvice Period End		
Must Use	DTM02	373	Date Date expressed as CCY	YMMDD	X	DT 8/8
			Service Period End Date			

Segment: SLN Subline Item Detail

Position: 200

Loop: SLN Optional

Level: Detail
Usage: Optional
ax Use: 1

Max Use:

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:

- 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.

SLN~1~~A

	Ref.	Data				
	Des.	Element	<u>Name</u>	<u>Attr</u>	<u>ributes</u>	
Must Use	SLN01	350	Assigned Identification	M	AN 1/20	
			Alphanumeric characters assigned for differentiation within	a tran	saction 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

- 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.
- 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.
- 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.

SAC~C~~EU~ENC001~10000~~~.1~KH~1000~~~~ENERGY CHARGE 1000 KWH .10/KWH

	Ref. <u>Des.</u>	Data Element	Name	·	Attı	ributes
Must Use	SAC01	248	Allowance or Cha	arge Indicator	M	ID 1/1
			Code which indica	ates an allowance or charge for the service	specif	fied
			C	Charge		
Must Use	SAC03	559	Agency Qualifier	Code	X	ID 2/2
			Code identifying t	he agency assigning the code values		
			EU	Electric Utilities		
Must Use	SAC04	1301	Agency Service, l	Promotion, Allowance, or Charge Code	X	AN 1/10
			Agency maintaine charge	d code identifying the service, promotion,	allow	ance, or
			ADJ001	Adjustment		
			BAS001	Basic Customer Charge		
			DMD001	Demand Charge		
			DMD006	Off Peak Demand Charge		
			DMD007	On Peak Demand Charge		

			ENC001	Energy Charge		
			ENC003	Off-Peak Energy Charge		
			ENC039	On Peak Energy Charge		
Must Use	SAC05	610	Amount		O	N2 1/15
			Monetary amoun	nt		
			This field must l must always equ	be signed if it is negative. The SAC08 mu all the SAC05.	ltiplied l	by the SAC10
Must Use	SAC08	118	Rate		O	R 1/9
			Rate expressed i specified	n the standard monetary denomination for	r the cur	rency
			This field must l must always equ	be signed if it is negative. The SAC08 mu all the SAC05.	ltiplied b	by the SAC10
Must Use	SAC09	355	Unit or Basis fo	r Measurement Code	X	ID 2/2
				the units in which a value is being expresement has been taken	ssed, or r	nanner in
			EA	Each		
			K1	Kilowatt Demand		
			KH	Kilowatt Hour		
Must Use	SAC10	380	Quantity		X	R 1/15
			Numeric value of	of quantity		
			This field may nalways equal the	not be negative. The SAC08 multiplied by e SAC05.	the SA	C10 must
Must Use						
Widst Osc	SAC15	352	Description		X	AN 1/80

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

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

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.

00.

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. Data

Des. Element Name

Must Use CTT01 354 Number of Line Items

Attributes

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

	Ref.	Data				
	Des.	Element	<u>Name</u>	<u>Attr</u>	<u>ributes</u>	
Must Use	SE01	96	Number of Included Segments	\mathbf{M}	N0 1/10	
			Total number of segments included in a transaction set include segments	ding S	ST and SE	
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

```
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*LDC
REF*9V*Y
N1*8S*UTILITY*1*006912345
N1*SJ*SUPPLIER*9*007909111IL00
N1*8R*CUSTOMER NAME
ITD*****20080501
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*RB*ABC123
 REF*PG**GREEN PRODUCT
 DTM*150*20080310
 DTM*151*20080409
 SLN*1**A
   SAC*C**EU*ADJ001*-1000***-10*EA*1*****ADJUSTMENT FIRST MONTH CREDIT
 SLN*2**A
   SAC*C**EU*BAS001*595***5.95*EA*1*****BASIC CUSTOMER CHARGE
 SLN*3**A
   SAC*C**EU*DMD001*556***.0555*K1*100.1*****DEMAND CHARGE
 SLN*4**A
   SAC*C**EU*ENC001*49320***.0685*KH*7200*****ENERGY CHARGE
TDS*49471
CTT*1
SE*31*0001
```