Illinois

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

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Transaction Set
ANSI ASC X12 Version 004010

820

UCB/POR Remittance Advice
Version 1.2

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Summary of Changes

- Initial Release.

- **Change Control #010** – Corrected examples at the end of the guide to show the appropriate transaction number in the ST segment. They previously showed ST*814*0001 but were fixed to show ST*820*0001.

- **Change Control #032** – Clarified ComEd's current implementation of negative remittance advice.

Implementation Notes

Uses for the 820 UCB
Remittance Advice

- This 820 UCB/POR Remittance Advice Implementation Guideline will be used to transmit Remittance information from the Utility to the RES for Utility Consolidated Billing/Purchase of Receivables (UCB/POR).

- This transaction set is not used for the Single Bill Option (SBO) where the RES bills for the utility charges. Current practice of sending the payment and remittance together through the banking system still apply for this bill option.

- Each 820 UCB Remittance Advice may include multiple accounts.

Payment

- The utilities will use one of three options to remit payment through the banking system and will include the financial re-association trace number in the following fields:
  - CCD+ - Addenda Record
  - CTX (EDI 820) – RMR02 Element
  - Wire Transfer – OBI Field

- The financial re-association trace number will also be included in the 820 UCB Remittance Advice in the TRN field. The RES will use this number, along with the total dollar amount to match the funds with the remittance details.

RES Interaction with
Financial Institution

- The RES will be receiving lump sum payments via their chosen Financial Institution that will reflect the identifier used to match the funds with the details provided in the Remittance transaction. The RES needs to work with its Financial Institution to determine how that information will be provided.

Penny Test

- It is recommended that the utilities send a penny test to the RES to ensure the proper bank accounts are set up as part of the testing and certification process. The Penny Test is preferable to a zero dollar pre-note because a pre-note does not always flow all the way through the banking systems to the receiver's customer system.

Instructions for
Handling a Negative
Remittance

- Ameren: The Payment Instruction and 820 UCB Remittance Advice will be sent on a daily basis and will include all applicable adjustments as outlined in the guides as long as the adjustments are not larger than the payments.

  - If the adjustments are larger than the payments, creating a negative remittance advice, Ameren will hold the adjustment that is causing the payment to be negative and continue to process the remaining payments. Ameren will continue to attempt to include the negative amount in its daily payments for a period of 5 days, at which time if the cannot satisfy the amount, they will contact the RES to make arrangements to have the amount repaid to the Ameren.

  - If the adjustments cause the payments to be zero, Ameren may go send the Remittance Advice without the obligation to make a zero payment.

- ComEd: The Payment Instruction and 820 UCB Remittance Advice will be sent on a daily basis and will include all applicable adjustments as outlined in the guides as long as the adjustments are not larger than the payments.

  - If the adjustments are larger than the payments (creating a negative remittance advice), the remittance advice will be transmitted with a zero in the BPR02.

  - The BPR02 will either contain the total positive amount being moved through the ACH system, which will add up to all your detail line

	items (RMR04s), or zero if the total of the detail line items is negative.
	o If the total of the detail line items is negative in the Day 1 remittance advice, ComEd nets out the negative amount from the Day 2 remittance advice, if the total payment amount in Day 2 is larger than the negative amount. In this case the BPR02 total payment amount in the Day 2 remittance advice will not equal the sum of the Day 2 RMR04s.

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.
	   o The 867 initiates the Cross Reference Number in the BPT02 field
	   o The Cross Reference Number then appears in the 810 Invoice (Bill Ready and Rate Ready) in the BIG05.
	   o The Cross Reference Number is finally provided in the 820 UCB Remittance Advice transaction in the REF*6O segment for UCB/POR.

RMR Loop	• Multiple RMR Loops may be sent in each 820 UCB Remittance Advice transaction but each Loop may contain information on only a single transaction amount for a single account/service point. • The RMR Loop contains several REF segments used to further identify the account, such as RES Account Number, Cross Reference Number, Service Point Identifier and Invoice Number.

Financial Re-association Trace Number	• In order to assist the RES with identifying the payment, the Trace Number on the 820 UCB Remittance Advice will be formatted as follows:
	   o Positions 1-2 will contain the literal "CP"
	   o Positions 3-11 will contain the Utility DUNS Number
	   o Positions 12-30 will be used by the Utility to uniquely identify this payment (e.g., date/time stamp or sequential number). It is not required to use all 30 characters.
	
	• This number will appear in the TRN02 of the 820 UCB Remittance Advice and the appropriate reference on the payment, including:
	   o Addenda Record (CCD+)
	   o RMR02 (CTX)
	   o OBI Field (Wire Transfer)

Rejection	• An 820 UCB Remittance Advice transaction will contain remittance information for more than one customer account. 824 Application Advice transaction(s) may be used to reject one or more payments at the account level or may be used to reject the entire 820 transaction. In general, an 820 UCB Remittance Advice transaction may be rejected when it contains validation or syntax errors or required data segments/elements are missing or invalid. Instructions in the 824 Application Advice Implementation Guide should be reviewed for further details.

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.

820 Payment Order/Remittance Advice

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Functional Group ID=RA

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Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Payment Order/Remittance Advice Transaction Set (820) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to make a payment, send a remittance advice, or make a payment and send a remittance advice. This transaction set can be an order to a financial institution to make a payment to a payee. It can also be a remittance advice identifying the detail needed to perform cash application to the payee's accounts receivable system. The remittance advice can go directly from payer to payee, through a financial institution, or through a third party agent.

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	BPR	Beginning Segment for Payment Order/Remittance Advice	M	1		
	035	TRN	Trace	O	1		c1
			LOOP ID - N1			>1	
	070	N1	Name	O	1		c2

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - ENT			>1	
	010	ENT	Entity	O	1		n1
			LOOP ID - RMR			>1	
	150	RMR	Remittance Advice Accounts Receivable Open Item Reference	O	1		c3
	170	REF	Reference Identification	O	>1		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1.   The ENT loop is for vendor or consumer third party consolidated payments.

Transaction Set Comments

1.   The TRN segment is used to uniquely identify a payment order/remittance advice.
2.   The N1 loop allows for name/address information for the payer and payee which would be utilized to address remittance(s) for delivery.
3.   Loop RMR is for open items being referenced or for payment on account.

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~820~000000001	

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		
			820 Payment Order/Remittance Advice		
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:	**BPR** Beginning Segment for Payment Order/Remittance Advice	
Position:	020	
Loop:		
Level:	Heading	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To indicate the beginning of a Payment Order/Remittance Advice Transaction Set and total payment amount, or to enable related transfer of funds and/or information from payer to payee to occur	

Syntax Notes:	1	If either BPR06 or BPR07 is present, then the other is required.
	2	If BPR08 is present, then BPR09 is required.
	3	If either BPR12 or BPR13 is present, then the other is required.
	4	If BPR14 is present, then BPR15 is required.
	5	If either BPR18 or BPR19 is present, then the other is required.
	6	If BPR20 is present, then BPR21 is required.
Semantic Notes:	1	BPR02 specifies the payment amount.
	2	When using this transaction set to initiate a payment, all or some of BPR06 through BPR16 may be required, depending on the conventions of the specific financial channel being used. BPR06 and BPR07 relate to the originating depository financial institution (ODFI).
	3	BPR08 is a code identifying the type of bank account or other financial asset.
	4	BPR09 is the account of the company originating the payment. This account may be debited or credited depending on the type of payment order.
	5	BPR12 and BPR13 relate to the receiving depository financial institution (RDFI).
	6	BPR14 is a code identifying the type of bank account or other financial asset.
	7	BPR15 is the account number of the receiving company to be debited or credited with the payment order.
	8	BPR16 is the date the originating company intends for the transaction to be settled (i.e., Payment Effective Date).
	9	BPR17 is a code identifying the business reason for this payment.
	10	BPR18, BPR19, BPR20 and BPR21, if used, identify a third bank identification number and account to be used for return items only.
	11	BPR20 is a code identifying the type of bank account or other financial asset.
Comments:		
Notes:		Required
		BPR~I~1000.00~C~ACH~~~~~~~~~~~~20100701

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**BPR01**	**305**	**Transaction Handling Code**	**M**	**ID 1/2**
			Code designating the action to be taken by all parties		
			I Remittance Information Only		
Must Use	**BPR02**	**782**	**Monetary Amount**	**M**	**R 1/18**
			Monetary amount		
			Will contain the total positive amount (including zero) being moved through the banking system, which will add up to all your detail line items (RMRs).		
			For ComEd, when negative payments (adjustments) to individual accounts cannot be offset by the total payment amount on the day the transaction is sent, the BPR02 will not equal the sum of the RMRs. On days when that occurs, no payment is sent and the next day the adjustment is netted out of the total payment, which creates a mismatch between the BPR02 and the sum of the RMR04 elements.		
			Please see the Implementation Notes for handling of negative remittance.		
Must Use	**BPR03**	**478**	**Credit/Debit Flag Code**	**M**	**ID 1/1**
			Code indicating whether amount is a credit or debit		

			C	Credit		

Must Use	**BPR04**	**591**	**Payment Method Code**		**M**	**ID 3/3**

Code identifying the method for the movement of payment instructions

ACH	Automated Clearing House (ACH)
FWT	Federal Reserve Funds/Wire Transfer - Nonrepetitive

Must Use	**BPR16**	**373**	**Date**	**O**	**DT 8/8**

Date expressed as CCYYMMDD

Payer's intended settlement date. This date may be different from the actual settlement date, which is the date your bank is credited by the Federal Reserve for this item.

Segment:	**TRN** Trace	
Position:	035	
Loop:		
Level:	Heading	
Usage:	Optional	
Max Use:	1	
Purpose:	To uniquely identify a transaction to an application	
Syntax Notes:		
Semantic Notes:	**1** TRN02 provides unique identification for the transaction.	
	2 TRN03 identifies an organization.	
	3 TRN04 identifies a further subdivision within the organization.	
Comments:		
Notes:	Required	

Required

In order to assist the RES with identifying the payment, the Trace Number on the UCB Remittance Advice will be formatted as follows:
o Positions 1-2 will contain the literal "CP"
o Positions 3-11 will contain the Utility DUNS Number
o Positions 12-30 will be used by the Utility to uniquely identify this payment (e.g., date/time stamp or sequential number). It is not required to use all 30 characters.

This number will appear in the TRN02 of the UCB Remittance Advice and the appropriate reference on the payment, including:
o Addenda Record (CCD+)
o RMR02 (CTX)
o OBI Field (Wire Transfer)

This number is used to tie together the payment and the remittance, which must equal except in the rare occasion that it is necessary to send a negative remittance advice with no associated funds transfer.
TRN~3~CP1234567890001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	TRN01	481	**Trace Type Code**	M	ID 1/2
			Code identifying which transaction is being referenced		
			3 Financial Reassociation Trace Number		
Must Use	TRN02	127	**Reference Identification**	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Unique Identifier that is also sent in the financial transaction, used to reassociate the remittance advice to the payment.		

Segment: # N1 Name (Payer)
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~PR~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		
		PR Payer		
		Utility		
Must Use **N102**	**93**	**Name**	**X**	**AN 1/60**
		Free-form name		
		Payer 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		
		Payer DUNS or DUNS+4		

Segment: # N1 Name (Payee)
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~PE~RES NAME~9~049612345IL00

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
    PE   Payee

Retail Electric Supplier (RES)

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

Free-form name

Payee

	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

Payee DUNS or DUNS+4

Segment:	# ENT Entity	
Position:	010	
Loop:	ENT Optional	
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To designate the entities which are parties to a transaction and specify a reference meaningful to those entities	
Syntax Notes:	**1**	If any of ENT02 ENT03 or ENT04 is present, then all are required.
	2	If any of ENT05 ENT06 or ENT07 is present, then all are required.
	3	If either ENT08 or ENT09 is present, then the other is required.
Semantic Notes:		
Comments:	**1**	This segment allows for the grouping of data by entity/entities at or within a master/masters. A master (e.g., an organization) can be comprised of numerous subgroups (e.g., entities). This master may send grouped data to another master (e.g., an organization) which is comprised of one or more entities. Groupings are as follows:

(1) Single/Single: Only ENT01 is necessary, because there is a single entity (the sending master) communicating with a single entity (the receiving master).
(2) Single/Multiple: ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master. The sending master is a single entity, so no other data elements need be used.
(3) Multiple/Single: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. The receiving master is a single entity, so no other data elements need be used.
(4) Multiple/Multiple: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master.
This segment also allows for the transmission of a unique reference number that is meaningful between the entities.

Notes:	Required
	ENT~1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	ENT01	554	**Assigned Number**	O	N0 1/6
			Number assigned for differentiation within a transaction set		

Segment:	**RMR** Remittance Advice Accounts Receivable Open Item Reference		
Position:	150		
Loop:	RMR Optional		
Level:	Detail		
Usage:	Optional		
Max Use:	1		
Purpose:	To specify the accounts receivable open item(s) to be included in the cash application and to convey the appropriate detail		
Syntax Notes:	1 If either RMR01 or RMR02 is present, then the other is required.		
	2 If either RMR07 or RMR08 is present, then the other is required.		
Semantic Notes:	1 If RMR03 is present, it specifies how the cash is to be applied.		
	2 RMR04 is the amount paid.		
	3 RMR05 is the amount of invoice (including charges, less allowance) before terms discount (if discount is applicable) or debit amount or credit amount of referenced items.		
	4 RMR06 is the amount of discount taken.		
	5 RMR08, if present, represents an interest penalty payment, amount late interest paid, or amount anticipation.		
Comments:	1 Parties using this segment should agree on the content of RMR01 and RMR02 prior to initiating communication.		
	2 If RMR03 is not present, this is a payment for an open item. If paying an open item, RMR02 must be present. If not paying a specific open item, RMR04 must be present.		
	3 RMR05 may be needed by some payees to distinguish between duplicate reference numbers.		
Notes:	Required		
	RMR~12~7799621539~PR~297.00~300.00~3.00		
	RMR~12~3965716927~AJ~-95.00~-94.05~.95~CS~-95.00		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	RMR01	128	**Reference Identification Qualifier**	**X ID 2/3**
			Code qualifying the Reference Identification	
			12 Billing Account	
			Utility Account Number	
Must Use	RMR02	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	
Must Use	RMR03	482	**Payment Action Code**	**O ID 2/2**
			Code specifying the accounts receivable open item(s), if any, to be included in the cash application.	
			AJ Adjustment	
			Adjustment to an amount remitted in a prior period for purchased receivables.	
			PR Progress Payment	
			POR Payment	
Must Use	RMR04	782	**Monetary Amount**	**O R 1/18**
			Monetary amount	
			POR Payment or Adjustment	
			The sum of the amounts sent in all RMR04 elements must equal the amount in BPR02 and the amount sent in the financial transaction except when BPR02 contains a zero (in the case of a negative remittance advice). For for ComEd, when negative payments (adjustments) to individual accounts cannot be offset by the total payment amount on the day the transaction is sent. No payment is sent on that day and the next day the adjustment is netted out of the total payment, which creates a mismatch between the BPR02 and sum of RMR04	

elements.

POR Payment: The amount in RMR04 is the net amount of the payment to the RES for the customer receivable purchased by the Utility for the account indicated in RMR02 for the current period. This amount is the sum of the amounts sent in RMR05 (Invoice Amount) and RMR06 (Discount Amount).

Adjustment: The amount in the RMR04 element, which may be a credit or a debit, is an adjustment to a previously transmitted POR Payment. Each adjustment must be sent in a separate RMR Loop and the RMR07 and RMR08 elements are required to identify the nature of the adjustment.

The amount must be signed if negative.

Dep	RMR05	782	Monetary Amount	O	R 1/18

Monetary amount

Invoiced Amount

POR Payments: Required. The amount is the Invoice Amount, which is the total debit or credit billed to the customer for the RES charges for the current period. This amount will equal the amount sent in the TDS segment of the associated 810.

Adjustments: Required if the discount was applied to the adjustment amount. The amount is the total debit or credit billed to the customer for the RES for the Adjustment or the total Disputed Charges.

The amount must be signed if negative.

Dep	RMR06	782	Monetary Amount	O	R 1/18

Monetary amount

Discount Amount

POR Payment: Required. The amount is the Discount Amount, which is the total amount of the discount applied to the current period invoiced amount (sent in RMR05) and is typically negative. Zero is a valid value for the discount amount.

Adjustment: Required if the discount was applied to the adjustment amount.

The amount must be signed if negative.

Dep	RMR07	426	Adjustment Reason Code	X	ID 2/2

Code indicating reason for debit or credit memo or adjustment to invoice, debit or credit memo, or payment

26	Invoice Cancelled
	Cancellation of RES Charges
72	Authorized Return
	Disputed RES Charges
CS	Adjustment

Dep	RMR08	782	Monetary Amount	X	R 1/18

Monetary amount

Adjustment Amount

Required when RMR03=AJ, otherwise not used. The amount in the RMR08, if populated, will always be the same as the amount in RMR04 and must be signed if negative.

	Segment:	**REF** Reference Identification (RES Account Number)
	Position:	170
	Loop:	RMR Optional
	Level:	Detail
	Usage:	Optional
	Max Use:	>1
	Purpose:	To specify identifying information
	Syntax Notes:	1 At least one of REF02 or REF03 is required.
		2 If either C04003 or C04004 is present, then the other is required.
		3 If either C04005 or C04006 is present, then the other is required.
	Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
	Comments:	
	Notes:	Required if provided on the 814 Enrollment or Change transaction.
		REF~11~0001392280

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 (Cross Reference Number)		
Position:	170		
Loop:	RMR 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 for POR Payments		

Notes:

Required for POR Payments
Optional for Adjustments

Unique cross reference number used to associate metering information (867MU or 867IU transaction), billing information (810 transaction) and payment information (820 transaction) for a specific billing period for an account.

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	
			6O Cross Reference Number	
			Unique cross-reference number to link 867, 810, and 820. The cross-reference number originally transmitted in the 867 - BPT02, and the 810 - BIG05.	
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	
			Cross Reference Number	

	Segment:	**REF** Reference Identification (Service Point Identifier)
	Position:	170
	Loop:	RMR Optional
	Level:	Detail
	Usage:	Optional
	Max Use:	>1
	Purpose:	To specify identifying information
	Syntax Notes:	1 At least one of REF02 or REF03 is required.
		2 If either C04003 or C04004 is present, then the other is required.
		3 If either C04005 or C04006 is present, then the other is required.
	Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
	Comments:	
	Notes:	Ameren Mass Market: Required for POR Payments, Optional for Adjustments
		Ameren Non-Mass Market: Required for POR Payments, Optional for Adjustments
		ComEd: Not Used
		Ameren currently uses an 8-digit Service Point number. All 8 digits, including leading zeros must be provided.
		REF~LU~00034180

Data Element Summary

	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 (Invoice Number)			
Position:	170			
Loop:	RMR	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 for POR Payments			
	Optional for Adjustments			
	REF~IK~1093842098			

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	
			IK 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	
			Invoice Number from the BIG02 element of the 810 Rate Ready or 810 Bill Ready transaction.	

		Segment:	**SE** Transaction Set Trailer

Segment: **SE** Transaction Set Trailer
Position: 010
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~917~000000001

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	

Example 1 – POR Payments

Scenario: Utility makes 3 POR payments to a RES for charges incurred the month prior. The discount rate is 1%.

```
ST*820*0001
BPR*I*628.65*C*ACH***********20091215
TRN*3*CP006912345200912140001
N1*PR*UTILITY*1*006912345
N1*PE*SUPPLIER*9*007909111IL00
ENT*1
  RMR*12*7799621539*PR*297*300*3
    REF*11*0012345600
    REF*6O*20091115.123456789
    REF*LU*00820391          Ameren Only
    REF*IK*810-20091215000101
  RMR*12*7799621539*PR*217.8*220*2.2
    REF*11*0012232231
    REF*6O*20091115.2394801
    REF*LU*12345678          Ameren Only
    REF*IK*810-20091215000132
  RMR*12*7799621539*PR*113.85*115*1.15
    REF*11*8391951910
    REF*6O*20091115.1235613
    REF*LU*00839023          Ameren Only
    REF*IK*810-20091215000233
SE*22*0001
```

Example 2 – Negative Adjustment for Cancel/Rebill

Scenario: Utility makes 1 POR payment and adjusts 1 account. The discount rate for the both the payment and adjustment is 1%. The adjustment is the result of a cancel/rebill for this account and therefore can carry the Cross Reference Number of the 867 Cancel transaction. There is no associated 810 Cancel, so the Invoice Number is not included.

```
ST*820*0001
BPR*I*183.15*C*ACH***********20091215
TRN*3*CP006912345200912140001
N1*PR*UTILITY*1*006912345
N1*PE*SUPPLIER*9*007909111IL00
ENT*1
  RMR*12*7799621539*PR*297*300*3
    REF*11*0012345600
    REF*6O*20091115-123456789
    REF*LU*00820391          Ameren Only
    REF*IK*810-20091215000101
  RMR*12*7799621539*AJ*-113.85*-115*1.15*26*-113.85
    REF*11*8391951910
    REF*6O*20091115-1235613CANCEL
    REF*LU*00839023          Ameren Only
SE*16*0001
```

Example 3 – Negative Adjustment for RES Initiated Cancel

Scenario: Utility makes 1 POR payment and adjusts 1 account because RES sent an 810 Reversal (BIG08=17) to the Utility. The Utility has already made payment for the reversed invoice and therefore reverses the payment. The discount rate is 1%. Since the adjustment is a result of a RES initiated Reversal, the Invoice Number is available.

```
ST*820*0001
BPR*I*183.15*C*ACH***********20091215
TRN*3*CP00691234520091214000101
N1*PR*UTILITY*1*006912345
N1*PE*SUPPLIER*9*007909111IL00
ENT*1
  RMR*12*7799621539*PR*297*300*3
    REF*11*0012345600
    REF*6O*20091115123456789
    REF*LU*00820391          Ameren Only
    REF*IK*810-20091215000101
  RMR*12*7799621539*AJ*-113.85*-115*1.15*26*-113.85
    REF*11*8391951910
    REF*6O*200911151235613
    REF*LU*00839023          Ameren Only
    REF*IK*810-2009121500981CANCEL
SE*17*0001
```