Illinois

Implementation Guide For Electronic Data Interchange

Transaction Set

ANSI ASC X12 Version 004010

867

Monthly Usage

Version 2.4

Summary of Changes

January 6, 2009	• Initial Release.
October 24, 2009 Version 1.1	• **Change Control #004 –** Corrected REF*CO to indicate that it is only required if value is other than 1. • **Change Control #005 –** Corrected value CI in BPT04 to C1. • **Change Control #015 –** Fixed Meter Multiplier to only be required when other than 1. Also, fixed QTY graybox at position 110 which referred to QTY04 (we do not use QTY04).
November 5, 2009 Version 1.2	• **Change Control #011 –** Added Meter Role (REF*JH) and Measurement (MEA) segments to allow for adjusted usage in the PTD*BC Unmetered Services loop.
January 6, 2011 Version 1.3	• **Change Control #016 –** Updated POR Eligibility Group Codes. • **Change Control #018 –** Removed MEA01 from PTD*PM loop and corrected examples on segment. Removed old examples from the end of the document and added production examples from Ameren and test examples from ComEd. • **Change Control #021 –** Changed POR Eligibility Group (REF03 of REF*12) and Payment Option (REF*9V) to be optional on Cancel. • **Change Control #022 –** Added REF*SPL for Ameren's Rate Zone. • Corrected X12 values under "Attributes" column and headings of each page.
April 18, 2012 Version 1.4	• **Change Control #038 –** Added BPT07 code "F" (Final) indicator.
May 31, 2013 Version 2.0	• **Change Control #040 –** Added requirements for Ameren Gas
October 14, 2013 Version 2.1	• **Change Control #041 –** Added examples for Ameren Gas and updated electric examples
October 15, 2016 Version 2.2	• **Change Control #047 –** Added REF03 to the REF*AM – Adjustment Reason for Ameren to communicate the percentage of accuracy for fast/slow meter usage adjustments to retail gas suppliers.
November 16, 2018 Version 2.3	• **Change Control #051 –** Added Net Metering Anniversary Month, Community Solar Participant Indicator (REF*AN), Total Off-site Generation QTY/MEA, Total On-site Generation QTY/MEA, Starting Bank QTY/MEA and new REF*KY code "VO" for Community Solar. Also added a description of Community Solar to the Implementation Notes.
November 21, 2024 Version 2.4	• **Change Control #056 –** Added 00 as a Net Metering Anniversary Month to indicate that an Ameren DS1 or DS2 On-site net metered service point does not have a Net Metering Anniversary Month.

Implementation Notes

PTD Loops Definition

- The PTD~SU loop is used to show the total usage for the account/service point. There will only be one PTD~SU loop per transaction and is always required.
- The PTD~PL loop is used to show usage for each non-interval meter. There will only be one PL loop per meter and have multiple QTY/MEA loops for the different units of measure or measurement significance codes.
- The PTD~PM loop is used to show usage for each interval meter.
- The PTD~BC loop is used to show unmetered or adjusted usage.
    - For Ameren: Will be used if unmetered services are on the account. Also in the rare cases when an adjustment to the usage is requested by the customer and a cancel and rebill will not handle the adjustment amount. The adjustment could be for metered services. Ameren may have more than one BC loop per transaction as they will keep all adjustments in separate BC loops. All adjustments would be current period adjustments only.
    - For ComEd: Will be used if unmetered services are on the account. ComEd will never have more than one BC loop per transaction.
- Neither ComEd nor Ameren will ever send time of use meters and non-time of use meters in the same transactions. Therefore the total of the on peak and off peak kWh readings will equal the total for kWh on the account.

Cancellations

- The MEA is an optional segment on a cancellation
- Cancel 867's will be by metering point (same as original 867's). Rebills may be for multiple periods.
- The "from" and "to" dates on the cancel must match exactly with the original usage.
- On a cancellation, the signs are NOT reversed. Cancels should be interpreted as negative consumption.
- The consumption sent in the cancel MUST match the consumption sent in the original transaction.

Rebills

- In order to restate usage for a period, the original usage must be canceled and then the new usage can be sent.
- If a cancellation is sent, it does not necessarily mean a restated usage will be sent (usage sent in error).

Definition of Mass Market Customers

- Ameren Mass Market
    - Electric - Includes any account containing one or more of only the following types of service points: DS-1 (residential), DS-2 (small commercial < 150 kW) or DS-5 (lighting).
    - Gas – Includes any account containing one or more of only the following types of service points: GDS-1 (residential) and GDS-2 (small general gas delivery - provided that GDS-2 service point(s) are not on the Rider T gas transportation option).
- ComEd Mass Market – Includes all residential and commercial customers under 100 kW.

Definition of Service Point	• Ameren's systems operate at a Service Point level. A service point consists of metered or unmetered load that is assigned to a specific Ameren rate. A service point containing metered load can have one or more meters associated with it. An Ameren account may have multiple electric service points associated with it. For Mass Market accounts, the Retail Electric Supplier/Gas Supplier (RES/GS) is required to take all service points on the account that is being enrolled. For Non-Mass Market accounts, the RES/GS may choose which Service Points to serve. It is important to follow the requirements in each Implementation Guide to differentiate when a Service Point Identifier may or may not be sent. • ComEd operates at an Account Level only.

Community Solar (Community Supply)	• Community Solar (also known by ComEd as Community Supply) is a program that allows customers who cannot or do not want to install solar on their property the ability to utilize solar energy to reduce their electric bill and promote the environment via subscriptions to solar projects. When customers enroll in a Community Solar project, the utility will send a Community Solar Participant Indicator (REF*AN) of "Y" on the 814 Enrollment Response or 814 Change Request transaction. The customer's account is credited with the kWh from the Community Solar project according to their subscription which is then converted to a dollar amount based on the price to compare. The kWh details are provided to the supplier at an interval level on the 867 Monthly Usage transaction. • The Community Solar data will always be provided at the interval level where the 867 Monthly Usage Report Type Code (BPT04) will either be C1 if all the usage on the account is sent at an interval level, or DR if some of the usage is summarized while the Community Solar, or possibly a portion of the On-site generation is at the interval level. o For Ameren, ▪ The Summary Loop (PTD*SU) will contain the total consumption as it does today, as well as 3 new fields including Total On-site Generation, Total Off-site Generation (Community Solar) and a Starting Bank. These three new fields should give full visibility in the PTD*SU loop as to what the customer should be billed. ▪ A separate PTD*PM loop will be sent for Community Solar with a Meter Role of Ignore (REF*JH*I) and a Meter Number of COMSLR (REF*MG*COMSLR). The Community Solar Meter Role is set to "I" because this data is not netted with the customer's gross load but is instead converted to a dollar amount credit based on the price to compare. ▪ The start and end dates for the pseudo meter loop (DTM*150 and DTM*151) will match the start and end dates for the metered service. o For ComEd, ▪ The Summary Loop (PTD*SU) will only contain the total consumption as it does today. The RES must look to the interval detail loop for the Community Solar generation. ▪ A separate PTD*PM loop will be sent for Community Solar with a Meter Role of Subtractive (REF*JH*S) and a Meter number that begins with a 6. ▪ A pseudo meter is used to measure the kWh credited to the Community Solar customer and is identified with the Special Meter Configuration code "VO" (REF*KY*VO).
One Commodity per Transaction	• Each submitted transaction may be valid for only one commodity (i.e., electric or gas).

867 Product Transfer and Resale Report

Functional Group ID=PT

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Product Transfer and Resale Report Transaction Set (867) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to: (1) report information about product that has been transferred from one location to another; (2) report sales of product from one or more locations to an end customer; or (3) report sales of a product from one or more locations to an end customer, and demand beyond actual sales (lost orders). Report may be issued by either buyer or seller.

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	BPT	Beginning Segment for Product Transfer and Resale	M	1		
			LOOP ID - N1			5	
	080	N1	Name	O	1		
	120	REF	Reference Identification	O	12		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - PTD			>1	
M	010	PTD	Product Transfer and Resale Detail	M	1		
	020	DTM	Date/Time Reference	O	10		
	030	REF	Reference Identification	O	20		
			LOOP ID - QTY			>1	
	110	QTY	Quantity	O	1		
	160	MEA	Measurements	O	40		
	210	DTM	Date/Time Reference	O	10		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	030	SE	Transaction Set Trailer	M	1		

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~867~00000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 867 Product Transfer and Resale Report	**M**	**ID 3/3**
Must Use	**ST02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M**	**AN 4/9**

Segment: **BPT** **Beginning Segment for Product Transfer and Resale**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the Product Transfer and Resale Report Transaction Set and transmit identifying data
Syntax Notes:
1 If either BPT05 or BPT06 is present, then the other is required.
Semantic Notes:
1 BPT02 identifies the transfer/resale number.
2 BPT03 identifies the transfer/resale date.
3 BPT08 identifies the transfer/resale time.
4 BPT09 is used when it is necessary to reference a Previous Report Number.
Comments:
Notes: Required
BPT~00~20081012123456789~20081201~DD
BPT~00~20120418123456789~20120418~DD~~~F

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**BPT01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 00 Original Conveys original readings for the account being reported. 01 Cancellation Indicates that the readings previously reported for the account are to be ignored.	**M**	**ID 2/2**
Must Use	**BPT02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier A unique transaction identification number assigned by the originator of this transaction. This number should be unique over time. Transaction Reference Numbers will only contain uppercase letters (A to Z), digits (0 to 9), dashes (-) and periods (.). Note that all other characters (spaces, underscores, etc.) must be excluded.	**O**	**AN 1/30**
Must Use	**BPT03**	**373**	**Date** Date expressed as CCYYMMDD Transaction Creation Date. This is the date that the transaction was created by the sender's application system.	**M**	**DT 8/8**
Must Use	**BPT04**	**755**	**Report Type Code** Code indicating the title or contents of a document, report or supporting item C1 Cost Data Summary Electric: Indicates transaction is an Interval usage transaction with only interval meters on the account. Gas: Not Used DD Distributor Inventory Report Indicates transaction is a non-interval usage transaction. DR Datalog Report Electric: Mixed Values - Sent on interval transaction if the account has both interval and non-interval meters. Gas: Not Used	**O**	**ID 2/2**
Dep	**BPT07**	**306**	**Action Code** Code indicating type of action Ameren: Not Used	**O**	**ID 1/2**

			ComEd: When an account finals, the last 867 usage transaction sent to the RES will include an F in the BPT07 element. If the account is dropped due to another RES enrollment or dropped to the utility, an F indicator is not included in the 867 transaction.			
			F	Final		
Dep	**BPT09**	**127**	**Reference Identification**		**O**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			When BPT01 = 01 this element should contain the transaction identification number sent in the BPT02 in the transaction that is being cancelled.			

Segment: **DTM** **Date/Time Reference (Document Due Date)**
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Required for Bill Ready Consolidated Billing where the Utility sends an 867 to the RES/GS, who calculates their own portion of the bill and sends the 810 to the Utility. Must be expressed in Central Time. Not provided on cancel transaction.
DTM~649~20091225~1500

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 649 Document Due The date and time that the RES/GS must provide the 810 transaction back to the Utility. If a file is received by the Utility after the date and time, and the Utility cannot process it, they must notify the RES/GS via 824 transaction.	**M**	**ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X**	**DT 8/8**
Must Use	**DTM03**	**337**	**Time** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) HHMM format	**X**	**TM 4/8**

Segment: **N1** **Name (Utility)**
Position: 080
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
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~1~123456789

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) Utility	**M ID 2/3**
Must Use	**N102**	**93**	**Name** Free-form name Utility Name	**X AN 1/60**
Must Use	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	**X ID 1/2**
Must Use	**N104**	**67**	**Identification Code** Code identifying a party or other code Utility D-U-N-S or D-U-N-S+4 Number	**X AN 9/13**

Segment: **N1** **Name (Retail Electric Supplier/Gas Supplier)**
Position: 080
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: Required
N1~SJ~RES/GS COMPANY~1~987654321

Data Element Summary

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

Segment: **N1** **Name (Customer)**
Position: 080
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: Required
N1~8R~CUSTOMER NAME

Data Element Summary

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

Segment: **REF** **Reference Identification (RES/GS Account Number)**
Position: 120
Loop: N1 Optional
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 if provided on the 814 Enrollment or 814 Change transaction.
REF~11~1234567890

Data Element Summary

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

Segment: **REF** **Reference Identification (Utility Account Number)**
Position: 120
Loop: N1 Optional
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

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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 12 Billing Account Utility Account Number	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Utility Account Number	**X AN 1/30**
Dep	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content Electric Original Bill - Required Electric Cancel Bill - Optional Gas: Not Used This code indicates the current class of customer in regard to the POR Eligibility groups as of the time the transaction is sent. GROUPA POR Eligibility Group A Ameren: Residential POR Eligible Accounts ComEd: Residential GROUPB POR Eligibility Group B Ameren: Commercial Mass Market POR Eligible Accounts ComEd: Commercial Mass Market POR Eligible Accounts (watt-hour/small) GROUPC POR Eligibility Group C Ameren: Non-Mass Market POR Eligible Accounts ComEd: Non-Mass Market POR Eligible Accounts (medium) GROUPD POR Eligibility Group D Ameren: Not Used ComEd: Lighting NONPOR Account Not Eligible for POR	**X AN 1/80**

Segment: **REF** **Reference Identification (Service Point Identifier)**
Position: 120
Loop: N1 Optional
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 Mass Market: Required - Monthly Usage sent by Service Point
Ameren Non-Mass Market: Required - Monthly Usage sent by Service Point
ComEd: Not Used

Ameren currently uses an 8-digit Service Point Identifier. 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** Code qualifying the Reference Identification LU Location Number Service Point Identifier	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Service Point Identifier	**X AN 1/30**

Segment: **REF** **Reference Identification (Bill Presenter)**
Position: 120
Loop: N1 Optional
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
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		
			DUAL	The Utility and RES/GS both Present Bills to the Customer	
			ESP	RES/GS Presents the Consolidated Bill to the Customer	
				Used for Illinois "SBO" (Single Bill Option) Only	
			LDC	Utility Presents the Consolidated Bill to the Customer	
				Used for both Rate Ready and Bill Ready Utility Consolidated Billing	

Segment: **REF** **Reference Identification (Bill Calculator)**
Position: 120
Loop: N1 Optional
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
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	
				Identifies the party that is to calculate their charges for the bill.	
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	
				Used for Dual Billing, Illinois "SBO" (Single Bill Option) and Bill Ready Utility Consolidated Billing	
			LDC	The Utility calculates the RES/GS charges	
				Used for Rate Ready Utility Consolidated Billing	

Segment: **REF** **Reference Identification (Payment Option)**
Position: 120
Loop: N1 Optional
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: Electric Original Bill: Required
Electric Cancel Bill: Optional
Gas: Not Used
REF~9V~Y

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 9V Payment Category Indicates whether the customer is to be part of the Purchase of Receivables (POR) program.	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier N Customer should NOT be signed up for the POR program. Y Customer should be signed up for the POR program.	**X AN 1/30**

Segment: **REF** **Reference Identification (Rate Zone)**
Position: 120
Loop: N1 Optional
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 - Required on Original Bill, Optional on Cancel
ComEd - Not Used
REF~SPL~RATE ZONE I
REF~SPL~RATE ZONE II
REF~SPL~RATE ZONE III

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification SPL Standard Point Location Code (SPLC) Rate Zone	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Rate Zone	**X AN 1/30**

Segment: **PTD** **Product Transfer and Resale Detail (Summary)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes: **1** If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Required
There will only be 1 PTD~SU loop per transaction
PTD~SU
PTD~SU~~~OZ~EL

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	**PTD01**	**521**	**Product Transfer Type Code**		**M**	**ID 2/2**
			Code identifying the type of product transfer			
			SU	Summary		
				This will be the total of all PM PL and BC Loops. For Ameren, it will be by service point. For ComEd, it will be by account/rate class.		
	PTD04	**128**	**Reference Identification Qualifier**		**X**	**ID 2/3**
			Code qualifying the Reference Identification			
			Ameren: Required ComEd: Not Used			
			OZ	Product Number		
				Commodity		
	PTD05	**127**	**Reference Identification**		**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			Ameren: Required ComEd: Not Used			
			EL	Electric		
			GAS	Gas		

Segment: **DTM** **Date/Time Reference (Service Period Start)**
Position: 020
Loop: PTD Mandatory
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
This date reflects the beginning of the date range for this billing period.
DTM~150~20081201

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 150 Service Period Start	**M**	**ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X**	**DT 8/8**

Segment: **DTM** **Date/Time Reference (Service Period End)**
Position: 020
Loop: PTD Mandatory
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
This date reflects the ending of the date range for this billing period.
DTM~151~20081230

Data Element Summary

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

Segment: **DTM** **Date/Time Reference (Net Metering Anniversary Month)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Ameren: Sent when a customer has On-Site Generation to notify the supplier which month, April (04) or October (10), that the customer's bank will be cleared Beginning with the first bill cycle after the Anniversary Month, the Beginning Bank (QTY*QH) will be set to zero. In addition, when a customer of a DS1 or DS2 service point has On-site Generation that has been activated on or after 01-01-25 and therefore does not have an Anniversary Month, a 00 will be sent as the Anniversary Month.
ComEd: Not Used
DTM~978~~~~MM~04
DTM~978~~~~MM~10
DTM~978~~~~MM~00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 978 Plan Anniversary Net Metering Anniversary Month	**M**	**ID 3/3**
Must Use	**DTM05**	**1250**	**Date Time Period Format Qualifier** Code indicating the date format, time format, or date and time format MM Month of Year in Numeric Format	**X**	**ID 2/3**
Must Use	**DTM06**	**1251**	**Date Time Period** Expression of a date, a time, or range of dates, times or dates and times Net Metering Anniversary Month	**X**	**AN 1/35**

Segment: **REF** **Reference Identification (Utility Rate Class)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Required
REF~NH~GS1~Large-GS

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification NH Rate Card Number Utility Rate Class	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Utility Rate Class	**X AN 1/30**
	REF03	**352**	**Description** A free-form description to clarify the related data elements and their content Text Description of Rate Class	**X AN 1/80**

Segment: **REF** **Reference Identification (Load Profile)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Required
REF~LO~GS

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification LO Load Planning Number Load Profile	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Load Profile	**X AN 1/30**

Segment: **REF** **Reference Identification (Supply Group)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
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:

Note: Supply group will be shown in REF03 due to the length of the supply group names.
ComEd: Required
Ameren: Not Used

Customer supply groups are designations for retail customers located in the Company's service territory so that retail customers can be categorized for the purposes of computing charges for the procurement of electric power and energy and applying such charges to retail customers. Please see the ComEd tariff for additional details.
REF~PTC~~Self-Generating

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification PTC Patent Type Supply Group	**M**	**ID 2/3**
Must Use	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content Supply Group	**X**	**AN 1/80**

Segment: **REF** **Reference Identification (Community Solar Participant Indicator)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Electric: Required of customer is a participant in Community Solar
Gas: Not Used
REF~AN~N

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			
			AN	Associated Purchase Orders		
				Community Solar Participant Indicator		
Must Use	**REF02**	**127**	**Reference Identification**		**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			N	No		
				This customer does not participate in Community Solar for this Service Point (Ameren)		
			Y	Yes		
				This customer participates in Community Solar for this Service Point (Ameren)		

Segment: **QTY** **Quantity (Total Consumption)**
Position: 110
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: Required
There will be one QTY loop for each type of consumption for the meter (i.e., kW, kWh, kVARH, Therms). If a meter measures total usage, as well as on-peak and off-peak, all three values would be contained in same QTY loop.
QTY~QD~24000~KH
MEA~AA~PRQ~24000~KH~8702~8777~51
MEA~AA~PRQ~10240~KH~3493~3525~42
MEA~AA~PRQ~53.76~K1~~~41
MEA~AA~PRQ~56.64~K1~~~42

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**QTY01**	**673**	**Quantity Qualifier** Code specifying the type of quantity KA Estimated Used when Quantity in QTY02 is Estimated QD Quantity Delivered Used when Quantity in QTY02 is Actual Reading	**M ID 2/2**
Must Use	**QTY02**	**380**	**Quantity** Numeric value of quantity Represents quantity of consumption delivered for service period	**X R 1/15**
Must Use	**QTY03**	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**O**
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken K1 Kilowatt Demand KW K3 Kilovolt Amperes Reactive Hour KVARH KH Kilowatt Hour KWH TD Therms	**M ID 2/2**

Segment: **MEA** **Measurements (Readings)**
Position: 160
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: Required
MEA~AA~PRQ~87~KH~~~51
MEA~AA~PRQ~3.5~K1~~~51

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA01**	**737**	**Measurement Reference ID Code**	**O ID 2/2**
			Code identifying the broad category to which a measurement applies	
			AA Meter reading-beginning actual/ending actual	
			AE Meter reading-beginning actual/ending estimated	
			AF Actual Total	
			EA Meter reading-beginning estimated/ending actual	
			EE Meter reading-beginning estimated/ending estimated	
Must Use	**MEA02**	**738**	**Measurement Qualifier**	**O ID 1/3**
			Code identifying a specific product or process characteristic to which a measurement applies	
			PRQ Product Reportable Quantity	
Must Use	**MEA03**	**739**	**Measurement Value**	**X R 1/20**
			The value of the measurement	
	MEA04	**C001**	**Composite Unit of Measure**	**X**
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code**	**M ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			K1 Kilowatt Demand	
			KW	
			K3 Kilovolt Amperes Reactive Hour	
			KVARH	
			KH Kilowatt Hour	
			KWH	
			TD Therms	
Must Use	**MEA07**	**935**	**Measurement Significance Code**	**O ID 2/2**
			Code used to benchmark, qualify or further define a measurement value	
			41 Off Peak	
			42 On Peak	
			51 Total	

Segment: **QTY** **Quantity (Total On-Site Generation)**
Position: 110
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: Ameren: Required when service point has on-site generation.
ComEd: Not Used
QTY*87*300*KH
MEA*AF*PRQ*300*KH***51

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**QTY01**	**673**	**Quantity Qualifier** Code specifying the type of quantity 87 Quantity Received Total On-Site Generation (Actual) 9H Estimated Duration Total On-Site Generation (Estimated)	**M ID 2/2**
Must Use	**QTY02**	**380**	**Quantity** Numeric value of quantity Represents the total on-site measured generation.	**M R 1/15**
Must Use	**QTY03**	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**M**
Dep	**C00101**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken KH Kilowatt Hour	**O ID 2/2**

Segment: **MEA** **Measurements**
Position: 160
Loop: QTY Optional
Level: Detail
Usage: Optional (Dependent)
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes:
Ameren: Required when service point has on-site generation.
ComEd: Not Used
QTY*87*300*KH
MEA*AF*PRQ*300*KH***51

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA01**	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies AF Actual Total	**M ID 2/2**
Must Use	**MEA02**	**738**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies PRQ Product Reportable Quantity	**M ID 1/3**
Must Use	**MEA03**	**739**	**Measurement Value** The value of the measurement Represents quantity of on-site generation received for service period.	**M R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken KH Kilowatt Hour	**M ID 2/2**
Must Use	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value 51 Total	**M ID 2/2**

Segment: **QTY** **Quantity (Total Off-Site Generation)**
Position: 110
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: Ameren: Required when customer has off-site generation such as Community Solar.
ComEd: Not Used
QTY*77*100*KH
MEA*AF*PRQ*100*KH***51

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**QTY01**	**673**	**Quantity Qualifier** Code specifying the type of quantity 77 Stock Transfers In Off-Site Generation (Community Solar)	**M**	**ID 2/2**
Must Use	**QTY02**	**380**	**Quantity** Numeric value of quantity Represents the total off-site generation (e.g., Community Solar).	**M**	**R 1/15**
Must Use	**QTY03**	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**M**	
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken KH Kilowatt Hour	**M**	**ID 2/2**

Segment: **MEA** **Measurements**
Position: 160
Loop: QTY Optional
Level: Detail
Usage: Optional (Dependent)
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes:
Ameren: Required when customer has off-site generation such as Community Solar.
ComEd: Not Used
QTY*77*100*KH
MEA*AF*PRQ*100*KH***51

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA01**	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies AF Actual Total	**M ID 2/2**
Must Use	**MEA02**	**738**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies PRQ Product Reportable Quantity	**M ID 1/3**
Must Use	**MEA03**	**739**	**Measurement Value** The value of the measurement Represents quantity of off-site generation (e.g., Community Solar) received for service period.	**M R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken KH Kilowatt Hour	**M ID 2/2**
Must Use	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value 51 Total	**M ID 2/2**

Segment: **QTY** **Quantity (Starting Bank)**
Position: 110
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: Ameren: Required when service point has a Starting Bank.
ComEd: Not Used
QTY*QH*500*KH
MEA*AF*PRQ*500*KH***51

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**QTY01**	**673**	**Quantity Qualifier** Code specifying the type of quantity QH Quantity on Hold Starting Bank	**M**	**ID 2/2**
Must Use	**QTY02**	**380**	**Quantity** Numeric value of quantity Represents the kWh that were banked from prior month's excess generation including both on and off-site.	**M**	**R 1/15**
Must Use	**QTY03**	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**M**	
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken KH Kilowatt Hour	**M**	**ID 2/2**

Segment: **MEA** **Measurements**
Position: 160
Loop: QTY Optional
Level: Detail
Usage: Optional (Dependent)
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes:
Ameren: Required when service point has a Starting Bank.
ComEd: Not Used
QTY*QH*500*KH
MEA*AF*PRQ*500*KH***51

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA01**	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies AF Actual Total	**M ID 2/2**
Must Use	**MEA02**	**738**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies PRQ Product Reportable Quantity	**M ID 1/3**
Must Use	**MEA03**	**739**	**Measurement Value** The value of the measurement Represents the kWh that were banked from prior month's excess generation including both on and off-site.	**M R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken KH Kilowatt Hour	**M ID 2/2**
Must Use	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value 51 Total	**M ID 2/2**

Segment: **PTD** **Product Transfer and Resale Detail (Non-Interval Metered Services Detail)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes: **1** If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: PTD Loops may be sent in any order.
Required if this is a non-interval metered account.

Note: The sending of the PL loop is optional when this is a cancel transaction (BPT01=01).
PTD~PL
PTD~PL~~~OZ~EL

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	**PTD01**	**521**	**Product Transfer Type Code**		**M**	**ID 2/2**
			Code identifying the type of product transfer			
			PL	Property Level Movement/Sale		
				A PL loop will be provided for each non-interval meter.		
	PTD04	**128**	**Reference Identification Qualifier**		**X**	**ID 2/3**
			Code qualifying the Reference Identification			
			Ameren: Required ComEd: Not Used			
			OZ	Product Number		
				Commodity		
	PTD05	**127**	**Reference Identification**		**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			Ameren: Required ComEd: Not Used			
			EL	Electric		
			GAS	Gas		

Segment: **DTM** **Date/Time Reference (Meter Change Date)**
Position: 020
Loop: PTD Mandatory
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 when a meter is changed

Used in conjunction with either the service period start date or the service period end date to indicate when a meter has been replaced. Separate PTD loops must be created for each period and meter.
DTM~514~20081225

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 514 Transferred Exchanged meter read date	**M ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X DT 8/8**

Segment: **DTM** **Date/Time Reference (Service Period Start)**
Position: 020
Loop: PTD Mandatory
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
This date reflects the beginning of the date range for this meter.
DTM~150~20081201

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 150 Service Period Start	**M**	**ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X**	**DT 8/8**

Segment: **DTM** **Date/Time Reference (Service Period End)**
Position: 020
Loop: PTD Mandatory
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
This date reflects the ending of the date range for this meter.
DTM~151~20081231

Data Element Summary

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

Segment: **REF** **Reference Identification (Meter Number)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
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 there is a metered account/service point and the meter is active during the service period.
REF~MG~12345

Data Element Summary

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

Segment: **REF** **Reference Identification (Special Meter Configuration)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Electric: Optional
Gas: Not Used
REF~KY~BMG

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**M ID 2/3**
			KY Site Specific Procedures, Terms, and Conditions Special Meter Configuration	
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**
			Special Meter Configuration	
			AL Auxiliary Load (ComED)	
			BMG Behind the Meter Generation (Ameren)	
			CM Check Meter (ComEd)	
			CO Check Meter/Outflow (ComEd)	
			GM Generator Meter (ComEd)	
			GO Generated Out Meter (ComEd)	
			GS General Service (ComEd)	
			IC Inflow/Check Meter (ComEd)	
			IF In With Flow Through (ComEd)	
			IO In/Out Meter Flow Through (ComEd)	
			IW In/Out Without Flow Through (ComEd)	
			KQ KQ Only (ComEd)	
			NM-BI Net Metering - Bidirectional Meter (Ameren)	
			NM-GG Net Metering - Gross Generation Meter (Ameren)	
			NM-GL Net Metering - Gross Load Meter (Ameren)	
			OF Out with Flow Through (ComEd)	
			OW Out without Flow Through (ComEd)	
			PG Power Factor General Service (ComEd)	
			PS Power Factor Space Heat (ComEd)	
			SH Space Heating (ComEd)	
			VO Community Solar Meter (ComEd)	
			The pseudo meter for Community Solar will always start with a 6.	
			XY Rider VA Gen Meter (ComEd)	

Segment: **REF** **Reference Identification (Meter Type)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Required
REF~MT~KHMON

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification MT Meter Ticket Number Meter Type	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier When REF01 is MT, the meter type is expressed as a five-character field. The first two characters are the type of consumption, the last three characters are the metering interval reported by the metering agent. Valid values can be a combination of the following values: Type of Consumption K1 Kilowatt Demand (kW) K3 Kilovolt Amperes Reactive Hour (kVARH) KH Kilowatt Hour (kWh) TD Therms If a meter records KW and KWH, K1 will only be sent. Metering Interval Reported for Billing Purposes MON Month For Example: KHMON Kilowatt Hours per month K1MON Kilowatt Demand per month TDMON Therms per month	**X AN 1/30**

Segment: **REF** **Reference Identification (Meter Role)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Required
REF~JH~A

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		
			JH	Tag	
				Meter Role	
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		
			Meter Role		
			A	Additive - this consumption contributed to the summarized total (do nothing).	
			I	Ignore - this consumption did not contribute to the summarized total (do nothing).	
			S	Subtractive - this consumption needs to be subtracted from the summarized total.	

Segment: **REF** **Reference Identification (Meter Constant)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
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 when the value is other than 1.

The Meter Constant will be formatted as 6 digits to the left of the decimal, a decimal point and four digits to the right of the decimal. All 11 characters must be sent.
REF~4P~000001.0000 Meter Constant of 1
REF~4P~000080.0000 Meter Constant of 80

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 4P Affiliation Number Meter Constant (Meter Multiplier) (Ending Reading - Beginning Reading) * Meter Constant = Consumption	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Meter Constant	**X AN 1/30**

Segment: **REF** **Reference Identification (Number of Dials)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
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

Number of Dials on the meter expressed as X.Y where X is the number of dials to the left of the decimal and Y is the number of dials to the right.
REF~IX~6.0 Meter has 6 digits to the left of the decimal and none to the right.
REF~IX~5.1 Meter has 5 digits to the left of the decimal and one to the right.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification IX Item Number Number of Dials	**M**	**ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Number of Dials	**X**	**AN 1/3**

Segment: **REF** **Reference Identification (Transformer Loss Multiplier)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Electric: Required if the value is other than 1
Gas: Not Used
An adjustment applied to meter reads to compensate for the situation when the meter voltage is different than the delivery voltage
REF~CO~1.12

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification CO Customer Order Number Transformer Loss Multiplier	**M**	**ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Transformer Loss Multiplier	**X**	**AN 1/30**

Segment: **QTY** **Quantity**
Position: 110
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: There will be one QTY loop for each type of consumption for the meter (i.e., kW, kWh, kVARH, Therms). If a meter measures total usage, as well as on-peak and off-peak, all three values would be contained in same QTY loop.
Required if there are metered services on the account.
QTY~QD~1234~KH

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**QTY01**	**673**	**Quantity Qualifier**	**M ID 2/2**
			Code specifying the type of quantity	
			KA Estimated	
			Used when Quantity in QTY02 is Estimated	
			QD Quantity Delivered	
			Used when Quantity in QTY02 is Actual Reading	
Must Use	**QTY02**	**380**	**Quantity**	**X R 1/15**
			Numeric value of quantity	
			Represents quantity of consumption delivered for service period.	
Must Use	**QTY03**	**C001**	**Composite Unit of Measure**	**O**
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code**	**M ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			K1 Kilowatt Demand	
			KW	
			K3 Kilovolt Amperes Reactive Hour	
			KVARH	
			KH Kilowatt Hour	
			KWH	
			TD Therms	

Segment: **MEA** **Measurements (Readings)**
Position: 160
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: Required
MEA~AA~PRQ~87~KH~1000~1087~51
MEA~AA~PRQ~3.5~K1~~3.5~51

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA01**	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies AA Meter reading-beginning actual/ending actual AE Meter reading-beginning actual/ending estimated AF Actual Total EA Meter reading-beginning estimated/ending actual EE Meter reading-beginning estimated/ending estimated	**O ID 2/2**
Must Use	**MEA02**	**738**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies PRQ Product Reportable Quantity	**O ID 1/3**
Must Use	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken K1 Kilowatt Demand KW K3 Kilovolt Amperes Reactive Hour KVARH KH Kilowatt Hour KWH TD Therms	**M ID 2/2**
Dep	**MEA05**	**740**	**Range Minimum** The value specifying the minimum of the measurement range Beginning Read Required if the meter provides beginning reads and is measuring KWH. Not used on K1 (demand) reads.	**X R 1/20**

Must Use	**MEA06**	**741**	**Range Maximum**	**X**	**R 1/20**
			The value specifying the maximum of the measurement range		
			Ending reading for the meter or single reading for K1		
Must Use	**MEA07**	**935**	**Measurement Significance Code**	**O**	**ID 2/2**
			Code used to benchmark, qualify or further define a measurement value		
			41 Off Peak		
			42 On Peak		
			51 Total		

Segment: **MEA** **Measurements (Therm Factor)**
Position: 160
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or **-**), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (**-**) value and MEA06 as the positive (+) value.
Notes:
Electric: Not Used
Gas: Required - This factor is used to convert CCF to Therms for billing purposes.
(Ending Reading - Beginning Reading) * Meter Constant * Therm Factor = Consumption
MEA~~CF~1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA02**	**738**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies CF Capacitance Out Therm Factor	**M ID 1/3**
Must Use	**MEA03**	**739**	**Measurement Value** The value of the measurement Therm Factor	**M R 1/20**

Segment: **PTD** **Product Transfer and Resale Detail (Unmetered Services Summary)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes: **1** If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: For Ameren: Will be used if unmetered services are on the account. Also, in the rare cases when an adjustment to the usage is requested by the customer and a cancel and rebill will not handle the adjustment amount. The adjustment could be for metered services. Ameren may have more than one BC loop per transaction as they will keep all adjustments in separate BC loops.

For ComEd: Will be used if unmetered services are on the account. ComEd will never have more than one BC loop per transaction.
Note: The sending of the PL loop is optional when this is a cancel transaction (BPT01=01).
PTD~BC
PTD~BC~~~OZ~EL

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	**PTD01**	**521**	**Product Transfer Type Code**		**M**	**ID 2/2**
			Code identifying the type of product transfer			
			BC	Issue - Other Agency		
				A BC loop will be sent for unmetered services or adjustments on the account/service point.		
	PTD04	**128**	**Reference Identification Qualifier**		**X**	**ID 2/3**
			Code qualifying the Reference Identification			
			Ameren: Required ComEd: Not Used			
			OZ	Product Number		
				Commodity		
	PTD05	**127**	**Reference Identification**		**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			Ameren: Required ComEd: Not Used			
			EL	Electric		
			GAS	Gas		

Segment: **DTM** **Date/Time Reference (Service Period Start)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Required
This date reflects the beginning of the date range for this unmetered service.
DTM~150~20081201

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 150 Service Period Start	**M**	**ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X**	**DT 8/8**

Segment: **DTM** **Date/Time Reference (Service Period End)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Required
This date reflects the ending of the date range for this unmetered service.
DTM~151~20081231

Data Element Summary

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

Segment: **REF** **Reference Identification (Meter Role)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
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

The PTD*BC loop, including this segment, may be used to provide adjustments to usage that cannot be associated to specific meter readings.
REF~JH~S

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification JH Tag Meter Role	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Meter Role A Additive - this consumption contributed to the summarized total (do nothing). I Ignore - this consumption did not contribute to the summarized total (do nothing). S Subtractive - this consumption needs to be subtracted from the summarized total.	**X AN 1/30**

Segment: **REF** **Reference Identification (Adjustment Reason)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
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 there is adjusted usage
REF~AM~02
REF~AM~01~102.345

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification AM Adjustment Memo (Charge Back) Adjustment Reason	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Adjustment Reason 01 Fast meter 02 Slow meter 03 Stopped meter 04 Unmetered adjustment 05 Cut in flat 06 Other % increase 07 Other % decrease 08 Free service 09 Revenue protection 10 Revenue protection - unmeasured	**X AN 1/30**
	REF03	**352**	**Description** A free-form description to clarify the related data elements and their content Electric: Not Used Gas: Additional information regarding the adjustment. For example, Ameren may provide the percent of the adjustment.	**O AN 1/80**

Segment: **QTY** **Quantity**
Position: 110
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: This loop is required when there are unmetered services on the account. This will contain the total quantity for the unmetered services.
QTY~QD~150~KH

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**QTY01**	**673**	**Quantity Qualifier** Code specifying the type of quantity QD Quantity Delivered Whether unmetered services are estimated, calculated or actual, the code will be QD.	**M ID 2/2**
Must Use	**QTY02**	**380**	**Quantity** Numeric value of quantity Represents quantity of consumption delivered for service period	**X R 1/15**
Must Use	**QTY03**	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**O**
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken KH Kilowatt Hour KWH TD Therms	**M ID 2/2**

Segment: **MEA** **Measurements**
Position: 160
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: Optional

The PTD*BC loop, including this segment, may be used to provide adjustments to usage that cannot be associated to specific meter readings.
MEA*AF*PRQ*1000*KH***51

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**MEA01**	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies AF Actual Total	**M**	**ID 2/2**
Must Use	**MEA02**	**738**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies PRQ Product Reportable Quantity	**X**	**ID 1/3**
Must Use	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X**	**R 1/20**
Must Use	**MEA04**	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**	
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken K1 Kilowatt Demand KH Kilowatt Hour TD Therms	**M**	**ID 2/2**
Must Use	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value 41 Off Peak 42 On Peak 51 Total	**O**	**ID 2/2**

Segment: **PTD** **Product Transfer and Resale Detail (Interval Metered Services Detail)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes: **1** If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: PTD Loops may be sent in any order.
Required if this is an interval metered account.

Note: The sending of the PM loop is optional when this is a cancel transaction (BPT01=01).
PTD~PM

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	**PTD01**	**521**	**Product Transfer Type Code**		**M**	**ID 2/2**
			Code identifying the type of product transfer			
			PM	Physical Meter Information		
				A PM loop will be provided for each interval meter.		
	PTD04	**128**	**Reference Identification Qualifier**		**X**	**ID 2/3**
			Code qualifying the Reference Identification			
			Ameren: Required ComEd: Not Used			
			OZ	Product Number		
				Commodity		
	PTD05	**127**	**Reference Identification**		**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			Ameren: Required ComEd: Not Used			
			EL	Electric		

Segment: **DTM** **Date/Time Reference (Meter Change Date)**
Position: 020
Loop: PTD Mandatory
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 when a meter is changed

Used in conjunction with either the service period start date or the service period end date to indicate when a meter has been replaced. Separate PTD loops must be created for each period and meter.
DTM~514~20081225

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 514 Transferred Exchanged meter read date	**M**	**ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X**	**DT 8/8**

Segment: **DTM** **Date/Time Reference (Service Period Start)**
Position: 020
Loop: PTD Mandatory
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
This date reflects the beginning of the date range for this meter.
DTM~150~20081201

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 150 Service Period Start	**M**	**ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X**	**DT 8/8**

Segment: **DTM** **Date/Time Reference (Service Period End)**
Position: 020
Loop: PTD Mandatory
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
This date reflects the ending of the date range for this meter.
DTM~151~20081231

Data Element Summary

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

Segment: **REF** **Reference Identification (Meter Number)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
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 there is a metered account/service point and the meter is active during the service period.
REF~MG~12345

Data Element Summary

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

Segment: **REF** **Reference Identification (Special Meter Configuration)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Required
REF~KY~AL

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		
			KY	Site Specific Procedures, Terms, and Conditions	
				Special Meter Configuration	
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		
			Special Meter Configuration		
			AL	Auxiliary Load (ComED)	
			BMG	Behind the Meter Generation (Ameren)	
			CM	Check Meter (ComEd)	
			CO	Check Meter/Outflow (ComEd)	
			GM	Generator Meter (ComEd)	
			GO	Generated Out Meter (ComEd)	
			GS	General Service (ComEd)	
			IC	Inflow/Check Meter (ComEd)	
			IF	In With Flow Through (ComEd)	
			IO	In/Out Meter Flow Through (ComEd)	
			IW	In/Out Without Flow Through (ComEd)	
			KQ	KQ Only (ComEd)	
			NM-BI	Net Metering - Bidirectional Meter (Ameren)	
			NM-GG	Net Metering - Gross Generation Meter (Ameren)	
			NM-GL	Net Metering - Gross Load Meter (Ameren)	
			OF	Out with Flow Through (ComEd)	
			OW	Out without Flow Through (ComEd)	
			PG	Power Factor General Service (ComEd)	
			PS	Power Factor Space Heat (ComEd)	
			SH	Space Heating (ComEd)	
			VO	Community Solar Meter (ComEd)	
				The pseudo meter for Community Solar will always start with a 6.	
			XY	Rider VA Gen Meter (ComEd)	

Segment: **REF** **Reference Identification (Meter Type)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Required
REF~MT~K1060

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification MT Meter Ticket Number Meter Type	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier When REF01 is MT, the meter type is expressed as a five-character field. The first two characters are the type of consumption; the last three characters are the metering interval reported by the metering agent. Valid values can be a combination of the following values: Type of Consumption K1 Kilowatt Demand (kW) K3 Kilovolt Amperes Reactive Hour (kVARH) KH Kilowatt Hour (kWh) If a meter records KW and KWH, K1 will only be sent. Metering Interval Reported for Billing Purposes nnn Number of minutes from 001 to 999 015 15 minute interval 060 60 minute interval For Example: KH060 Kilowatt Hours per 60 minute interval K1060 Kilowatt Demand per 60 minute interval	**X AN 1/30**

Segment: **REF** **Reference Identification (Meter Role)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Required
REF~JH~A

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification JH Tag Meter Role	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Meter Role A Additive - this consumption contributed to the summarized total (do nothing). I Ignore - this consumption did not contribute to the summarized total (do nothing). S Subtractive - this consumption needs to be subtracted from the summarized total.	**X AN 1/30**

Segment: **REF** **Reference Identification (Meter Constant)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
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 when the value is other than 1.

The Meter Constant will be formatted as 6 digits to the left of the decimal, a decimal point and four digits to the right of the decimal. All 11 characters must be sent.
REF~4P~000001.0000 Meter Constant of 1
REF~4P~000080.0000 Meter Constant of 80

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 4P Affiliation Number Meter Constant (Meter Multiplier) (Ending Reading - Beginning Reading) * Meter Constant = Consumption	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Meter Constant	**X AN 1/30**

Segment: **REF** **Reference Identification (Number of Dials)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
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

Number of Dials on the meter expressed as X.Y where X is the number of dials to the left of the decimal and Y is the number of dials to the right.
REF~IX~6.0 Meter has 6 digits to the left of the decimal and none to the right.
REF~IX~5.1 Meter has 5 digits to the left of the decimal and one to the right.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification IX Item Number Number of Dials	**M**	**ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Number of Dials	**X**	**AN 1/3**

Segment: **REF** **Reference Identification (Transformer Loss Multiplier)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional
Max Use: 20
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 the value is other than 1
An adjustment applied to meter reads to compensate for the situation when the meter voltage is different than the delivery voltage
REF~CO~1.12

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification CO Customer Order Number Transformer Loss Multiplier	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Transformer Loss Multiplier	**X AN 1/30**

Segment: **QTY** **Quantity**
Position: 110
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: There will be one QTY loop for each type of consumption for the meter (i.e., kW, kWh, kVARH). If a meter measures total usage, as well as on-peak and off-peak, all three values would be contained in same QTY loop.
Required if there are metered services on the account.
QTY~QD~1234~KH

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**QTY01**	**673**	**Quantity Qualifier** Code specifying the type of quantity KA Estimated Used when Quantity in QTY02 is Estimated QD Quantity Delivered Used when Quantity in QTY02 is Actual Reading	**M ID 2/2**
Must Use	**QTY02**	**380**	**Quantity** Numeric value of quantity Represents quantity of consumption delivered for service period.	**X R 1/15**
Must Use	**QTY03**	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**O**
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken K1 Kilowatt Demand KW K3 Kilovolt Amperes Reactive Hour KVARH KH Kilowatt Hour KWH	**M ID 2/2**

Segment: **MEA** **Measurements (Readings)**
Position: 160
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: Required
MEA~~PRQ~8955~KH~~~51
MEA~~PRQ~17910~K1~~~51

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA02**	**738**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies PRQ Product Reportable Quantity	**O ID 1/3**
Must Use	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X R 1/20**
Must Use	**MEA04**	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken K1 Kilowatt Demand KW K3 Kilovolt Amperes Reactive Hour KVARH KH Kilowatt Hour KWH	**M ID 2/2**
Must Use	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value 41 Off Peak 42 On Peak 51 Total	**O ID 2/2**

Segment: **DTM** **Date/Time Reference (Report Period)**
Position: 210
Loop: QTY 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: End date and time of the period for which the quantity is provided. Time will include zone. Each interval must be explicitly labeled with the date and time.
Required
DTM~582~20081215~1500

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 582 Report Period The date/time of the end of the interval	**M**	**ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X**	**DT 8/8**
Must Use	**DTM03**	**337**	**Time** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) HHMM format	**X**	**TM 4/8**

Segment: **SE** **Transaction Set Trailer**
Position: 030
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~21~00000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**
Must Use	**SE02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M AN 4/9**

Example #1 – Monthly Usage for One Meter with kW and kWh

ComEd	Ameren
ST*867*0001	ST*867*0001
BPT*00*2013-04-19-19.35.43.150000*20130419*DD	BPT*00*162542945320130419000 1*20130419*D
DTM*649*20130424*1000	DTM*649*20130425*144500
N1*8S*COMMONWEALTH EDISON CO*1*006929509	N1*8S*AMEREN ILLINOIS*1*006936017
N1*SJ*Supplier*9*007909111IL00	N1*SJ*Supplier*9*007909111IL00
N1*8R*CUSTOMER NAME	N1*8R*CUSTOMER NAME
REF*12*1234567890*GROUPB	REF*12*1234567890*GROUPC
REF*BLT*LDC	REF*LU*41128204
REF*PC*DUAL	REF*SPL*RATE ZONE III
REF*9V*Y	REF*BLT*LDC
PTD*SU	REF*PC*DUAL
DTM*150*20130321	REF*9V*Y
DTM*151*20130419	PTD*SU
REF*NH*R73	DTM*150*20130319
REF*LO*28	DTM*151*20130418
REF*PTC**SG05	REF*NH*DS3*DS - General Service (DS-3) Le
QTY*QD*1291*KH	REF*LO*DS3LL-
MEA*AA*PRQ*1291*KH***51	QTY*QD*24000*KH
MEA*AA*PRQ*3.56*K1***42	MEA*AA*PRQ*24000*KH***51
MEA*AA*PRQ*3.56*K1***41	PTD*PL
PTD*PL	DTM*150*20130319
DTM*150*20130321	DTM*151*20130418
DTM*151*20130419	REF*MG*91346000
REF*MG*141660000	REF*MT*K1MON
REF*KY*GS	REF*JH*A
REF*MT*K1MON	REF*4P*000320.0000
REF*JH*A	REF*IX*5.0
REF*4P*000001.0000	QTY*QD*24000*KH
REF*IX*5.0	MEA*AA*PRQ*24000*KH*8702*8777*51
QTY*QD*1291*KH	MEA*AA*PRQ*10240*KH*3493*3525*42
MEA*AA*PRQ*1291*KH*26963*28254*51	MEA*AA*PRQ*53.76*K1***41
MEA*AA*PRQ*3.56*K1**3.56*51	MEA*AA*PRQ*56.64*K1***42
SE*33*0001	SE*33*0001

Example #2 – Monthly Usage for Unmetered Service

ComEd	Ameren
ST*867*0001 BPT*00*2013-10-11-21.51.28.111111*20131011*DD DTM*649*20131016*1000 N1*8S*COMMONWEALTH EDISON CO*1*006929509 N1*SJ*SUPPLIER*9*123456789L00 N1*8R*CUSTOMER NAME REF*12*2863059999*GROUPD REF*BLT*LDC REF*PC*DUAL REF*9V*Y PTD*SU DTM*150*20130911 DTM*151*20131011 REF*NH*R81 REF*LO*35 REF*PTC**SG02 QTY*QD*450*KH MEA*AA*PRQ*450*KH***51 PTD*BC DTM*150*20130911 DTM*151*20131011 QTY*QD*450*KH SE*23*0001	ST*867*0001 BPT*00*98630088162013101100002*20131011*DD N1*8S*AMEREN ILLINOIS*1*006936017 N1*SJ*SUPPLIER*1*111111111 N1*8R*CUSTOMER NAME REF*12*9863009999*GROUPB REF*LU*95749999 REF*SPL*RATE ZONE I REF*BLT*DUAL REF*PC*DUAL REF*9V*N PTD*SU DTM*150*20130911 DTM*151*20131010 REF*NH*DS5*DS - Non-Residential Lighting REF*LO*LITE QTY*QD*95*KH MEA*AA*PRQ*95*KH***51 PTD*BC DTM*150*20130911 DTM*151*20131010 REF*JH*A QTY*QD*95*KH SE*24*0001

Example #3 – Interval Usage

Ameren

ST*867*0001
BPT*00*022013000720101000000*20101006*C1
N1*8S*AMEREN ILLINOIS*1*006936017
N1*SJ* SUPPLIER*1*111111111
N1*8R*CUSTOMER NAME
REF*12*1111111111*NONPOR
REF*LU*01234567
REF*SPL*RATE ZONE I
REF*BLT*DUAL
REF*PC*DUAL
REF*9V*N
PTD*SU
DTM*150*20100903
DTM*151*20101005
REF*NH*DS4*DS - Lg General Svc (DS-4) 100
REF*LO*IDR
QTY*QD*1645893*KH
MEA*AA*PRQ*1645893*KH***51
PTD*PM **(FIRST METER)**
DTM*150*20100903
DTM*151*20101005
REF*MG*11111111
REF*MT*KH060
REF*JH*A
REF*4P*004800.0000
QTY*QD*354*KH
MEA**PRQ*354*KH***51
MEA**PRQ*364*K1***51
DTM*582*20100903*0200
QTY*QD*318*KH
MEA**PRQ*318*KH***51
MEA**PRQ*332*K1***51
DTM*582*20100903*0300

… skipped through the end of the period for the first meter

QTY*QD*225*KH
MEA**PRQ*225*KH***51
MEA**PRQ*240*K1***51
DTM*582*20101005*0100
PTD*PM **(SECOND METER)**
DTM*150*20100903
DTM*151*20101005
REF*MG*22222222
REF*MT*KH060
REF*JH*A
REF*4P*004800.0000
QTY*QD*629*KH
MEA**PRQ*629*KH***51
MEA**PRQ*656*K1***51
DTM*582*20100903*0200

(Continued from left)

QTY*QD*596*KH
MEA**PRQ*596*KH***51
MEA**PRQ*620*K1***51
DTM*582*20100903*0300

… skipped through the end of the period for the second meter

QTY*QD*726*KH
MEA**PRQ*726*KH***51
MEA**PRQ*732*K1***51
DTM*582*20101005*0100
PTD*PM **(THIRD METER)**
DTM*150*20100903
DTM*151*20101005
REF*MG*33333333
REF*MT*KH060
REF*JH*A
REF*4P*004800.0000
QTY*QD*1308*KH
MEA**PRQ*1308*KH***51
MEA**PRQ*1320*K1***51
DTM*582*20100903*0200
QTY*QD*1276*KH
MEA**PRQ*1276*KH***51
MEA**PRQ*1292*K1***51
DTM*582*20100903*0300

… skipped through the end of the period for the third meter

QTY*QD*983*KH
MEA**PRQ*983*KH***51
MEA**PRQ*1052*K1***51
DTM*582*20101005*0100
SE*9256*0001

Example #4 – Interval Usage
ComEd

ST*867*80001
BPT*00*8672010-09-910.35.000000*20100909*C1
N1*8S*COMMONWEALTH EDISON*1*006929509
N1*SJ*SUPPLIER*1*111111111
N1*8R*CUSTOMER NAME
REF*12*1111111111*NONPOR
REF*BLT*DUAL
REF*PC*DUAL
REF*9V*N
PTD*SU
DTM*150*20100303
DTM*151*20100401
REF*NH*R78
REF*LO*33
REF*PTC**SG10
QTY*QD*24680670*KH
MEA*AA*PRQ*24680670*KH***51
MEA*AA*PRQ*9189447*KH***42
MEA*AA*PRQ*15491223*KH***41
MEA*AA*PRQ*51275.52*K1***42
MEA*AA*PRQ*50821.34*K1***41
PTD*PM **(FIRST METER)**
DTM*150*20100303
DTM*151*20100401
REF*MG*117751111
REF*KY*IO
REF*MT*K1030
REF*JH*A
REF*4P*000001.0000
REF*IX*5.0
QTY*QD*8955*KH
MEA**PRQ*8955*KH***51
MEA**PRQ*17910*K1***51
DTM*582*20100304*0030
QTY*QD*9144*KH
MEA**PRQ*9144*KH***51
MEA**PRQ*18288*K1***51
DTM*582*20100304*0100

… skipped through the end of the period

QTY*QD*8523*KH
MEA**PRQ*8523*KH***51
MEA**PRQ*17046*K1***51
DTM*582*20100401*2130
QTY*QD*8478*KH
MEA**PRQ*8478*KH***51
MEA**PRQ*16956*K1***51
DTM*582*20100401*2200
PTD*PM **(SECOND METER)**
DTM*150*20100303
DTM*151*20100401
REF*MG*145002222

(Continued from left)

REF*KY*IO
REF*MT*K1030
REF*JH*A
REF*4P*000001.0000
REF*IX*5.0
QTY*QD*3915*KH
MEA**PRQ*3915*KH***51
MEA**PRQ*7830*K1***51
DTM*582*20100304*0030
QTY*QD*3870*KH
MEA**PRQ*3870*KH***51
MEA**PRQ*7740*K1***51
DTM*582*20100304*0100

… skipped through the end of the period

QTY*QD*13.284*KH
MEA**PRQ*13.284*KH***51
MEA**PRQ*26.568*K1***51
DTM*582*20100401*2130
QTY*QD*14.256*KH
MEA**PRQ*14.256*KH***51
MEA**PRQ*28.512*K1***51
DTM*582*20100401*2200
SE*33340*80001

Example #5 – Gas Monthly Usage

Ameren Gas

```
ST*867*0001
BPT*00*108823300320131001000l*20131002*DD
N1*8S*AMEREN ILLINOIS*1*006936017
N1*SJ*ABC ENERGY*1*192834560
N1*8R*CUSTOMER TWO
  REF*12*1088232997
  REF*LU*73248964
  REF*SPL*RATE ZONE II
  REF*BLT*DUAL
  REF*PC*DUAL
PTD*SU***OZ*GAS
  DTM*150*20130901
  DTM*151*20131001
  REF*NH*GDS*GDS-2 Small Gen Gas Del-Sp Ht
  QTY*QD*30*TD
    MEA*AA*PRQ*30*TD***51
PTD*PL***OZ*GAS
  DTM*150*20130901
  DTM*151*20131001
  REF*MG*20734697
  REF*MT*TDMON
  REF*JH*A
  REF*4P*000001.0000
  REF*IX*4.0
  REF*CO*0
  QTY*QD*30*TD
    MEA*AA*PRQ*30*TD***51
    MEA**CF*1
SE*29*0001
```

Example #5 – Community Solar - Community Solar will always be shown as hourly data. If the metered service on the account is summary data, BPT04 will equal DR to indicate mixed values.

Ameren Electric

```
ST*867*0003
BPT*00*123123123120180605100l*20180605*DR
N1*8S*AMEREN ILLINOIS*1*006936017
N1*SJ*ABC ENERGY*1*157912432
N1*8R*TEST ACCOUNT 8672
  REF*12*1231231231*GROUPB
  REF*LU*12345678
  REF*SPL*RATE ZONE I
  REF*BLT*DUAL
  REF*PC*DUAL
  REF*9V*N
PTD*SU***OZ*EL
  DTM*150*20180501
  DTM*151*20180601
  REF*NH*DS2*DS-2 Small General Delivery Se
  REF*LO*DS2LL-CIPS
  REF*AN*Y                          ← Community Solar Participant Ind. = Yes
  QTY*QD*2587*KH                    ← Total Consumption
    MEA*AA*PRQ*2587*KH***51
  QTY*77*11.408*KH                  ← Total Off Site (Community Solar) Generation
    MEA*AF*PRQ*11.408*KH***51
  QTY*QH*154*KH                     ← Starting Bank (Can be on- or off-site)
    MEA*AF*PRQ*154*KH***51
PTD*PL***OZ*EL
  DTM*150*20180501
  DTM*151*20180601
  REF*MG*99998888
  REF*MT*KHMON
  REF*JH*A
  REF*IX*6.0
  QTY*QD*2587*KH
    MEA*AA*PRQ*2587*KH*56407*58994*51
PTD*PM***OZ*EL
  DTM*150*20180502
  DTM*151*20180601
  REF*MG*COMSLR                     ← Meter # is "COMSLR" for Community Solar
  REF*MT*KH060
  REF*JH*I
  QTY*QD*.0108*KH
    MEA**PRQ*.0108*KH***51
      DTM*582*20180502*0100
  QTY*QD*.0104*KH
    MEA**PRQ*.0104*KH***51|
      DTM*582*20180502*0200|
....
  QTY*QD*.0116*KH|
    MEA**PRQ*.0116*KH***51|
    DTM*582*20180601*2359|
SE*1511*0003|
```