

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	<ul style="list-style-type: none"> Initial Release.
October 24, 2009 Version 1.1	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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. Change Control #038 – Added BPT07 code “F” (Final) indicator.
April 18, 2012 Version 1.4	
May 31, 2013 Version 2.0	<ul style="list-style-type: none"> Change Control #040 – Added requirements for Ameren Gas
October 14, 2013 Version 2.1	<ul style="list-style-type: none"> Change Control #041 – Added examples for Ameren Gas and updated electric examples
October 15, 2016 Version 2.2	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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.
October 5, 2023 Version 2.4	<ul style="list-style-type: none"> Change Control #055 – For ComEd, remove the code “VO” from the REF*KY segment and remove any information related to ComEd sending a pseudo meter for Community Solar. ComEd will no longer send the pseudo meter as there is no impact to supplier billing.

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.

Community Solar (Community Supply)

- ComEd operates at an Account Level only.
- 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.
 - Ameren: The customer’s account is credited with the kWh from the Community Solar project according to their subscription and the details are provided to the supplier at an interval level on the 867 Monthly Usage transaction.
 - ComEd: Community Solar has no impact to the supplier; this information was previously shown as a pseudo meter, but upon implementation of their new billing system, ComEd will stop sending the pseudo meter information.
- Ameren Only - 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.
 - 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 Subtractive (REF*JH*S) and a Meter Number of COMSLR (REF*MG*COMSLR).
 - 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.

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:

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

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

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
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				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set	
			867 Product Transfer and Resale Report	
Must Use	ST02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

Segment: **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

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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					
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>	
Must Use	DTM01	374	Date/Time Qualifier	M	ID 3/3
			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.		
Must Use	DTM02	373	Date	X	DT 8/8
			Date expressed as CCYYMMDD		
Must Use	DTM03	337	Time	X	TM 4/8
			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		

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

Segment:	N1 Name (Retail Electric Supplier/Gas Supplier)
Position:	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.	Data	Name	Attributes
	Des.	Element		
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			SJ Service Provider	
			Retail Electric Supplier (RES) or Gas Supplier (GS)	
Must Use	N102	93	Name	X AN 1/60
			Free-form name	
			RES/GS Name	
Must Use	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
Must Use	N104	67	Identification Code	X AN 9/80
			Code identifying a party or other code	
			RES/GS D-U-N-S or D-U-N-S+4 Number	

Segment:	N1 Name (Customer)
Position:	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.	Data	Name	Attributes
	<u>Des.</u>	<u>Element</u>		
Must Use	N101	98	Entity Identifier Code	X ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			8R	Consumer Service Provider (CSP) Customer
			Customer Name	
Must Use	N102	93	Name	X AN 1/60
			Free-form name	
			Customer Name	

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

Segment:	REF	Reference Identification (Utility Account Number)
Position:	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:	<p>Required</p> <p>Both utilities currently have 10 digit account numbers. All 10 digits, including leading zeros must be provided.</p> <p>REF~12~0000445648~GROUPA</p> <p>REF~12~0000445648</p>	

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			12	Billing Account
				Utility Account Number
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Utility Account Number	
Dep	REF03	352	Description	X AN 1/80
			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

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				
	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			LU	Location Number
			Service Point Identifier	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Service Point Identifier	

Segment:	REF Reference Identification (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				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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	
			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				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			9V	Payment Category
				Indicates whether the customer is to be part of the Purchase of Receivables (POR) program.
Must Use	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	Customer should NOT be signed up for the POR program.
			Y	Customer should be signed up for the POR program.

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

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			SPL	Standard Point Location Code (SPLC)
			Rate Zone	
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	
			Rate Zone	

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

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 or October, 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. ComEd: Not Used DTM~978~~~~MM~04 DTM~978~~~~MM~10

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

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

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				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			LO	Load Planning Number
			Load Profile	
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	
			Load Profile	

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:	<p>Note: Supply group will be shown in REF03 due to the length of the supply group names.</p> <p>ComEd: Required Ameren: Not Used</p> <p>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.</p> <p>REF~PTC~~Self-Generating</p>	

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

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				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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:	<p>Required</p> <p>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.</p> <p>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</p>

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

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:	<ol style="list-style-type: none"> 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

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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:	<ol style="list-style-type: none"> 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

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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	M ID 2/2
			Code specifying the type of quantity	
			QH Quantity on Hold	
			Starting Bank	
Must Use	QTY02	380	Quantity	M R 1/15
			Numeric value of quantity	
			Represents the kWh that were banked from prior month's excess generation including both on and off-site.	
Must Use	QTY03	C001	Composite Unit of Measure	M
			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	
			KH Kilowatt Hour	

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:	<ol style="list-style-type: none"> 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

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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

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

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:	<ol style="list-style-type: none"> 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.	Data	Name	Attributes
	<u>Des.</u>	<u>Element</u>		
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			150 Service Period Start	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

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

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				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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)	
			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~KHMOM	

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	
			MT Meter Ticket Number	
			Meter Type	
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	
			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:	
			KHMOM Kilowatt Hours per month	
			K1MOM Kilowatt Demand per month	
			TDMOM Therms per month	

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				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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				
	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			4P	Affiliation Number
				Meter Constant (Meter Multiplier)
				(Ending Reading - Beginning Reading) * Meter Constant = Consumption
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 Constant	

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

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				
	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			CO Customer Order Number	
			Transformer Loss Multiplier	
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	
			Transformer Loss Multiplier	

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:	<p>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.</p> <p>Required if there are metered services on the account.</p> <p>QTY~QD~1234~KH</p>

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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					
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>	
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		
Dep	MEA05	740	Range Minimum	X	R 1/20
			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.		

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

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

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

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

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

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				
	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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 (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				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			AM Adjustment Memo (Charge Back)	
			Adjustment Reason	
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	
			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	
	REF03	352	Description	O AN 1/80
			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.	

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				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	QTY01	673	Quantity Qualifier	M ID 2/2
			Code specifying the type of quantity	
			QD Quantity Delivered	
			Whether unmetered services are estimated, calculated or actual, the code will be QD.	
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	
			KH Kilowatt Hour	
			KWH	
			TD Therms	

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	M ID 2/2
			Code identifying the broad category to which a measurement applies	
			AF Actual Total	
Must Use	MEA02	738	Measurement Qualifier	X 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	
Must Use	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	
			KH Kilowatt Hour	
			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: **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

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

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

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

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				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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)	
			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				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			MT Meter Ticket Number	
			Meter Type	
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	
			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	

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				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	<p>Required when the value is other than 1.</p> <p>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.</p> <p>REF~4P~000001.0000 Meter Constant of 1</p> <p>REF~4P~000080.0000 Meter Constant of 80</p>

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			4P Affiliation Number	
			Meter Constant (Meter Multiplier)	
			(Ending Reading - Beginning Reading) * Meter Constant = Consumption	
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 Constant	

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

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				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			CO Customer Order Number	
			Transformer Loss Multiplier	
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	
			Transformer Loss Multiplier	

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:	<p>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.</p> <p>Required if there are metered services on the account.</p> <p>QTY~QD~1234~KH</p>

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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	

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:	<ol style="list-style-type: none"> 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				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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:	<ol style="list-style-type: none"> 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:	<p>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.</p> <p>Required</p> <p>DTM~582~20081215~1500</p>

Data Element Summary				
	Ref.	Data	Name	Attributes
	Des.	Element		
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			582 Report Period	
			The date/time of the end of the interval	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	
Must Use	DTM03	337	Time	X TM 4/8
			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	

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	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

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

ComEd	Ameren
ST*867*0001 BPT*00*2013-04-19-19.35.43.150000*20130419*DD DTM*649*20130424*1000 N1*8S*COMMONWEALTH EDISON CO*1*006929509 N1*SJ*Supplier*9*007909111IL00 N1*8R*CUSTOMER NAME REF*12*1234567890*GROUPB REF*BLT*LDC REF*PC*DUAL REF*9V*Y PTD*SU DTM*150*20130321 DTM*151*20130419 REF*NH*R73 REF*LO*28 REF*PTC**SG05 QTY*QD*1291*KH MEA*AA*PRQ*1291*KH***51 MEA*AA*PRQ*3.56*K1***42 MEA*AA*PRQ*3.56*K1***41 PTD*PL DTM*150*20130321 DTM*151*20130419 REF*MG*141660000 REF*KY*GS REF*MT*K1MON REF*JH*A REF*4P*000001.0000 REF*IX*5.0 QTY*QD*1291*KH MEA*AA*PRQ*1291*KH*26963*28254*51 MEA*AA*PRQ*3.56*K1**3.56*51 SE*33*0001	ST*867*0001 BPT*00*1625429453201304190001*20130419*DD DTM*649*20130425*144500 N1*8S*AMEREN ILLINOIS*1*006936017 N1*SJ*Supplier*9*007909111IL00 N1*8R*CUSTOMER NAME REF*12*1234567890*GROUPC REF*LU*41128204 REF*SPL*RATE ZONE III REF*BLT*LDC REF*PC*DUAL REF*9V*Y PTD*SU DTM*150*20130319 DTM*151*20130418 REF*NH*DS3*DS - General Service (DS-3) Le REF*LO*DS3LL- QTY*QD*24000*KH MEA*AA*PRQ*24000*KH***51 PTD*PL DTM*150*20130319 DTM*151*20130418 REF*MG*91346000 REF*MT*K1MON REF*JH*A REF*4P*000320.0000 REF*IX*5.0 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 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*9863008816201310110002*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*0220130007201010000000*20101006*C1
N1*8S*AMEREN ILLINOIS*1*006936017
N1*SJ* SUPPLIER*1*11111111
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

<p>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*111111111*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</p>	<p>(Continued from left)</p> <p>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</p>
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Example #5 – Gas Monthly Usage

Ameren Gas

ST*867*0001
BPT*00*1088233003201310010001*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*1231231231201806051001*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

QTY*QD*2587*KH
 MEA*AA*PRQ*2587*KH***51

QTY*77*11.408*KH
 MEA*AF*PRQ*11.408*KH***51

QTY*QH*154*KH
 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
 REF*MT*KH060
 REF*JH*S
 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|

← Community Solar Participant Ind. = Yes

← Total Consumption

← Total Off Site (Community Solar) Generation

← Starting Bank (Can be on- or off-site)

← Meter # is "COMSLR" for Community Solar