

Implementation Guide For Electronic Data Interchange

> Transaction Set ANSI ASC X12 Version 004010



Summary of Changes

January 6, 2009	• Initial Release.
October 24, 2009 Version 1.1	• Change Control #004 – Corrected REF*CO to indicate that it is only required if value is other than 1.
	• Change Control #005 – Corrected value CI in BPT04 to C1.
	• Change Control #015 – Fixed Meter Multiplier to only be required when other than 1. Also, fixed QTY graybox at position 110 which referred to QTY04 (we do not use QTY04).
November 5, 2009 Version 1.2	• Change Control #011 – Added Meter Role (REF*JH) and Measurement (MEA) segments to allow for adjusted usage in the PTD*BC Unmetered Services loop.
January 6, 2011	• Change Control #016 – Updated POR Eligibility Group Codes.
Version 1.3	• Change Control #018 – Removed MEA01 from PTD*PM loop and corrected examples on segment. Removed old examples from the end of the document and added production examples from Ameren and test examples from ComEd.
	• Change Control #021 – Changed POR Eligibility Group (REF03 of REF*12) and Payment Option (REF*9V) to be optional on Cancel.
	• Change Control #022 – Added REF*SPL for Ameren's Rate Zone.
	• Corrected X12 values under "Attributes" column and headings of each page.
April 18, 2012 Version 1.4	• Change Control #038 – Added BPT07 code "F" (Final) indicator.
May 31, 2013 Version 2.0	• Change Control #040 – Added requirements for Ameren Gas
October 14, 2013 Version 2.1	• Change Control #041 – Added examples for Ameren Gas and updated electric examples
October 15, 2016 Version 2.2	• Change Control #047 – Added REF03 to the REF*AM – Adjustment Reason for Ameren to communicate the percentage of accuracy for fast/slow meter usage adjustments to retail gas suppliers.
November 16, 2018 Version 2.3	• Change Control #051 – Added Net Metering Anniversary Month, Community Solar Participant Indicator (REF*AN), Total Off-site Generation QTY/MEA, Total On-site Generation QTY/MEA, Starting Bank QTY/MEA and new REF*KY code "VO" for Community Solar. Also added a description of Community Solar to the Implementation Notes.
October 5, 2023 Version 2.4	• 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
Cancellations	off peak kWh readings will equal the total for kWh on the account.The MEA is an optional segment on a cancellation
	 Cancel 867's will be by metering point (same as original 867's). Rebills may be for multiple periods.
	• The "from" and "to" dates on the cancel must match exactly with the original usage.
	• On a cancellation, the signs are NOT reversed. Cancels should be interpreted as negative consumption.
	• The consumption sent in the cancel MUST match the consumption sent in the original transaction.
Rebills	• In order to restate usage for a period, the original usage must be canceled and then the new usage can be sent.
	• If a cancellation is sent, it does not necessarily mean a restated usage will be sent (usage sent in error).
Definition of Mass Market Customers	 Ameren Mass Market Electric - Includes any account containing one or more of only the following types of service points: DS-1 (residential), DS-2 (small commercial < 150 kW) or DS-5 (lighting). Gas – Includes any account containing one or more of only the following types of service points: GDS-1 (residential) and GDS-2 (small general gas delivery - provided that GDS-2 service point(s) are not on the Rider T gas transportation option).
	 ComEd Mass Market – Includes all residential and commercial customers under 100 kW.

Definition of Service Point	• Ameren's systems operate at a Service Point level. A service point consists of metered or unmetered load that is assigned to a specific Ameren rate. A service point containing metered load can have one or more meters associated with it. An Ameren account may have multiple electric service points associated with it. For Mass Market accounts, the Retail Electric Supplier/Gas Supplier (RES/GS) is required to take all service points on the account that is being enrolled. For Non-Mass Market accounts, the RES/GS may choose which Service Points to serve. It is important to follow the requirements in each Implementation Guide to differentiate when a Service Point Identifier may or may not be sent.
	• ComEd operates at an Account Level only.
Community Solar (Community Supply)	• Community Solar (also known by ComEd as Community Supply) is a program that allows customers who cannot or do not want to install solar on their property, the ability to utilize solar energy to reduce their electric bill and promote the environment via subscriptions to solar projects. When customers enroll in a Community Solar project, the utility will send a Community Solar Participant Indicator (REF*AN) of "Y" on the 814 Enrollment Response or 814 Change Request transaction.
	 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= \mathbf{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). Report may be issued by either buyer or seller.

Heading:

	Pos. <u>No.</u> 010	Seg. <u>ID</u> ST	<u>Name</u> Transaction Set Header	Req. <u>Des.</u> M	<u>Max.Use</u> 1	Loop <u>Repeat</u>	Notes and <u>Comments</u>
М	020	BPT	Beginning Segment for Product Transfer and Resale LOOP ID - N1	М	1	5	
	080 120	N1 REF	Name Reference Identification	0 0	1 12		

Detail:

	Pos. <u>No.</u>	Seg. <u>ID</u>	Name	Req. <u>Des.</u>	Max.Use	Loop <u>Repeat</u>	Notes and <u>Comments</u>
			LOOP ID - PTD			>1	
М	010	PTD	Product Transfer and Resale Detail	М	1		
	020	DTM	Date/Time Reference	0	10		
	030	REF	Reference Identification	0	20		
			LOOP ID - QTY			>1	
	110	QTY	Quantity	0	1		
	160	MEA	Measurements	0	40		
	210	DTM	Date/Time Reference	0	10		

Summary:

	Pos.	Seg.		Req.		Loop	Notes and
	<u>No.</u>	ID	<u>Name</u>	Des.	Max.Use	<u>Repeat</u>	Comments
Μ	030	SE	Transaction Set Trailer	М	1		

S	Segment:	ST T	ransaction Set Header				
]	Position:	010					
	Loop:						
	Level:	Heading					
	Usage:	Mandatory					
Ν	Max Use:	1					
]	Purpose:	To indica	ate the start of a transaction set and to assign a control number				
Synta	ax Notes:	x 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).						
Co	mments:	50100	ts the involce Transaction Set).				
Cu	Notes:	Required					
	nones.	-					
		51~80/~	00000001				
			Data Element Summary				
	Ref.	Data					
	Des.	Element	Name	Att	<u>ributes</u>		
Must Use	ST01	143	Transaction Set Identifier Code	Μ	ID 3/3		
			Code uniquely identifying a Transaction Set				
			867 Product Transfer and Resale Report				
Must Use	ST02	329	Transaction Set Control Number	М	AN 4/9		
	2202		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Synt Seman	Segment: Position: Loop: Level: Usage: Max Use: Purpose: tax Notes: tic Notes: omments: Notes:	020 Heading Mandato 1 To indica transmit 1 If ei 1 BPT 2 BPT 3 BPT 4 BPT Required BPT~00	ate the beginning of t identifying data ther BPT05 or BPT0 '02 identifies the tran '03 identifies the tran '08 identifies the tran '09 is used when it is 1 ~2008101212345678	nsfer/resale date. nsfer/resale time. s necessary to reference a Previous Report		
			Data Elen	nent Summary		
Must Use	Ref. <u>Des.</u> BPT01	Data <u>Element</u> 353	<u>Name</u> Transaction Set P	urpose Code		<u>ibutes</u> ID 2/2
				urpose of transaction set		
			00 01	Original Conveys original readings for the accorreported. Cancellation		
				Indicates that the readings previously reaccount are to be ignored.	eporte	a for the
Must Use	BPT02	127	Reference Identifi	ē	0	AN 1/30
			specified by the Re A unique transaction transaction. This n Transaction Refere	tion as defined for a particular Transaction efference Identification Qualifier on identification number assigned by the o number should be unique over time. ence Numbers will only contain uppercase nes (-) and periods (.). Note that all other nust be excluded.	origina letter	tor of this s (A to Z),
Must Use	BPT03	373	Date		Μ	DT 8/8
Must Use	BPT04	755	Date expressed as 0 Transaction Creation the sender's applica Report Type Code	on Date. This is the date that the transactiation system.	on wa	s created by
111131 USC	DI 104	155		e title or contents of a document, report or		-
			C1	Cost Data Summary	~ ~ PP	
				Electric: Indicates transaction is an Intertransaction with only interval meters of Gas: Not Used		
			DD	Distributor Inventory Report		
			DB	Indicates transaction is a non-interval u	isage t	ransaction.
			DR	Datalog Report Electric: Mixed Values - Sent on interv the account has both interval and non-i Gas: Not Used		
Dep	BPT07	306	Action Code	2.00 1.00 0.000	0	ID 1/2
			Code indicating typ			
			Ameren: Not Used			

			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 Transa specified by the Reference Identification Qualifier	action Set or as		
			When $BPT01 = 01$ this element should contain the transaction identification number sent in the BPT02 in the transaction that is being cancelled.			

DTM	Date/Time Reference (Document Due Date)
	Date/Time Reference (Document Dife Date)

	Segment:	DTN	I Date/Time Refe	rence (Document Due Date)	
	Position:	050			
	Loop:				
	Level:	Heading			
	Usage:	Optional			
	Max Use:	1			
G	Purpose:		fy pertinent dates and		
Syn	tax Notes:	2 If D'	TM04 is present, the	DTM03 or DTM05 is required. n DTM03 is required.	
Somor	tio Notore	3 If eit	ther DTM05 or DTM	106 is present, then the other is required.	
Semantic Notes: Comments:					
			for Bill Beady Cons	olidated Billing where the Utility sends a	n 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 Elem	ent Summary	
	Ref.	Data			
	Des.	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifi	er	M ID 3/3
			Code specifying typ	pe of date or time, or both date and time	
			649	Document Due	
				The date and time that the RES/GS must 810 transaction back to the Utility.	st provide the
				If a file is received by the Utility after t and the Utility cannot process it, they n 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
			HHMMSSD, or HH 59), $S = integer sec$	24-hour clock time as follows: HHMM, o HMMSSDD, where H = hours (00-23), M onds (00-59) and DD = decimal seconds; llows: D = tenths (0-9) and DD = hundred	= minutes (00- decimal seconds

] Synt Seman	Segment: Position: Loop: Level: Usage: Max Use: Purpose: ax Notes: tic Notes: omments:	080 N1 (Heading Optional 1 To identi 1 At le 2 If eit 1 This orga prov	east one of N102 or ther N103 or N104 i segment, used alon nizational identifica ide a key to the tabl 5 and N106 further	f organization, name, and code	ode" (N	104) must
		N1~8S~I	UTILITY NAME~1	~123456789		
			Data Flor	nent Summary		
	Ref.	Data	Data Liei	iene Summary		
Must Use	<u>Des.</u> N101	<u>Element</u> 98	<u>Name</u> Entity Identifier (Code		<u>ributes</u> ID 2/3
			•	n organizational entity, a physical locati Consumer Service Provider (CSP) Utility		
Must Use	N102	93	Name		Х	AN 1/60
			Free-form name			
			Utility Name			
Must Use	N103	66	Identification Co	de Qualifier	Х	ID 1/2
			Code designating t Code (67) 1 9	the system/method of code structure used D-U-N-S Number, Dun & Bradstreet D-U-N-S+4, D-U-N-S Number with I Suffix		
Must Use	N104	67	Identification Co		Х	AN 9/13
			Code identifying a	party or other code		
			-			

Synt Seman	Segment: Position: Loop: Level: Usage: Max Use: Purpose: ax Notes: tic Notes: omments:	080 N1 C Heading Optional 1 To identi 1 At le 2 If eir 1 This orga prov 2 N10 Required	Optional (Must Use) (Must Use) ify a party by type of east one of N102 or N ther N103 or N104 is segment, used alone mizational identificat vide a key to the table 5 and N106 further d	present, then the other is required. provides the most efficient method of p ion. To obtain this efficiency the "ID Co maintained by the transaction processin efine the type of entity in N101.	de" (N	(104) must
			Data Elem	ent Summary		
Must Use	Ref. <u>Des.</u> N101	Data <u>Element</u> 98	<u>Name</u> Entity Identifier C	Code	<u>Att</u> M	<u>ributes</u> ID 2/3
			Code identifying an individual SJ	n organizational entity, a physical locatio Service Provider	n, proj	perty or an
				Retail Electric Supplier (RES) or Gas S	Suppli	er (GS)
Must Use	N102	93	Name		Х	AN 1/60
			Free-form name			
			RES/GS Name			
Must Use	N103	66	Identification Cod	e Qualifier	Х	ID 1/2
			Code designating th Code (67) 1 9	ne system/method of code structure used D-U-N-S Number, Dun & Bradstreet D-U-N-S+4, D-U-N-S Number with F		
	N104			Suffix		
Must Use	N104	67	Identification Cod		Х	AN 9/80
				party or other code or D-U-N-S+4 Number		

	Segment: Position: Loop: Level: Usage: Max Use:	N1 Name (Customer) 080 N1 Optional Heading Optional					
	Purpose:			organization, name, and code			
Synta	ax Notes:		east one of N102 or N				
		2 If eit	ther N103 or N104 is	present, then the other is required.			
	tic Notes: omments: Notes:	 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. N105 and N106 further define the type of entity in N101. 					
			Data Elem	ent Summary			
	Ref. <u>Des.</u>	Data <u>Element</u>			<u>Attributes</u>		
Must Use	N101	98	Entity Identifier C		X ID 2/3		
			Code identifying an individual 8R	organizational entity, a physical location Consumer Service Provider (CSP) Cust Customer Name			
Must Use	N102	93	Name Free-form name		X AN 1/60		
			Customer Name				

	Segment:	REF	Reference Identification (RES/GS Account Number)					
	Position:	120						
	Loop:		Optional					
	Level:	Heading	1					
	Usage:	Optional						
	Max Use:	12						
	Purpose:	To speci	fy identifying information					
Synt	ax Notes:	1 At le	east one of REF02 or REF03 is required.					
	tic Notes: omments:	3 If ei	ther C04003 or C04004 is present, then the other is required. ther C04005 or C04006 is present, then the other is required. 704 contains data relating to the value cited in REF02.					
	Notes:	-	l if provided on the 814 Enrollment or 814 Change transactio ~1234567890	n.				
			Data Element Summary					
	Ref.	Data	·					
	Des.	<u>Element</u>	Name	<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 Account Number	Supplier (GS)				
Must Use	REF02	127	Reference Identification	X AN 1/30				
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier	on Set or as				
		RES/GS Account Number						

Syn Semar	Segment: Position: Loop: Level: Usage: Max Use: Purpose: tax Notes: omments: Notes:	Reference Identification (Utility Account Number) 120 N1 Optional Heading Optional 12 To specify identifying information 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. 1 REF04 contains data relating to the value cited in REF02. Required Both utilities currently have 10 digit account numbers. All 10 digits, including leading zeros must be provided. REF~12~0000445648~GROUPA REF~12~0000445648					
			Data Elem	ent Summary			
	Ref.	Data Flomont		-	A ++++:h +++		
Must Use	<u>Des.</u> REF01	Element 128	<u>Name</u> Reference Identifi	cation Qualifier	<u>Attributes</u> M ID 2/3		
			Code qualifying the	e Reference Identification			
			12	Billing Account			
				Utility Account Number	N		
Must Use	REF02	127	Reference Identifi		X AN 1/30		
				ion as defined for a particular Transactio ference Identification Qualifier mber	in Set of as		
Dep	REF03	352	Description		X AN 1/80		
			A free-form descrip	otion to clarify the related data elements a	and their content		
			Electric Original Bi Electric Cancel Bill Gas: Not Used	-			
				the current class of customer in regard to	the POR		
			Eligibility groups a	s of the time the transaction is sent.			
			GROUPA	POR Eligibility Group A	ounts		
				Ameren: Residential POR Eligible Acc ComEd: Residential	ounts		
			GROUPB	POR Eligibility Group B			
				Ameren: Commercial Mass Market PC	R Eligible		
				Accounts ComEd: Commercial Mass Market PO Accounts (watt-hour/small)	R Eligible		
			GROUPC	POR Eligibility Group C Ameren: Non-Mass Market POR Eligil ComEd: Non-Mass Market POR Eligit			
			GROUPD	(medium) POR Eligibility Group D	ic Accounts		
				Ameren: Not Used ComEd: Lighting			
			NONPOR	Account Not Eligible for POR			

REF Reference Identification (Service Point Identifier)

	Segment:	KEF	Reference	ce Identification (Service Point Identifier)					
	Position:	120							
	Loop:	N1 Optional							
	Level:	Heading							
	Usage:	Optional							
	Max Use:	12							
	Purpose:			ng information					
Synt	tax Notes:			REF02 or REF03 is required.					
		2 If eit	her C0400.	3 or C04004 is present, then the other is requi	red.				
				5 or C04006 is present, then the other is requi	red.				
Seman	tic Notes:	1 REF	04 contains	s data relating to the value cited in REF02.					
C	omments:								
	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								
	Ref.	Data	D	Pata Element Summary					
	Des.	Element	Name		Attributes				
Must Use	REF01	128	Reference	e Identification Qualifier	M ID 2/3				
				lifying the Reference Identification					
			LU	Location Number					
			LU						
				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

Must Use	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	<u>Name</u> Reference Identifi	cation Qualifier	<u>Attı</u> M	<u>ributes</u> ID 2/3
			Code qualifying the	e Reference Identification		
			BLT	Billing Type		
				Bill Presenter		
Must Use	REF02	127	Reference Identifi	cation	Х	AN 1/30
				ion as defined for a particular Transaction ference Identification Qualifier The Utility and RES/GS both Present B Customer RES/GS Presents the Consolidated Bill Used for Illinois "SBO" (Single Bill Op Utility Presents the Consolidated Bill to Used for both Rate Ready and Bill Read Consolidated Billing	ills to to the tion) the C	o the e Customer Only Customer

Segment:	REF Reference Identification (Bill Calculator)
Position:	120
Loop:	N1 Optional
Level:	Heading
Usage:	Optional
Max Use:	12
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	Required
	REF~PC~DUAL

Data Element Summary

	Ref.	Data	Data Liem	ent Summary	
	Des.	Element	Name		Attributes
Must Use	REF01	128	Reference Identifie	cation Qualifier	M ID 2/3
			Code qualifying the	Reference Identification	
			PC	Production Code	
				Identifies the party that is to calculate the bill.	heir charges for
Must Use	REF02	127	Reference Identifie	cation	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" (Option) and Bill Ready Utility Consolie	dated Billing
			LDC	The Utility calculates the RES/GS char	ges
				Used for Rate Ready Utility Consolidat	ted Billing

Segment:REF Reference Identification (Payment Option)Position:120Loop:N1Loup:N1OptionalLevel:HeadingUsage:OptionalMax Use:12Purpose:To specify identifying informationSyntax Notes:1At least one of REF02 or REF03 is required.2If either C04003 or C04004 is present, then the other is required.3If either C04005 or C04006 is present, then the other is required.1REF04 contains data relating to the value cited in REF02.Notes:Electric Original Bill: Required Electric Cancel Bill: Optional					
		Gas: Not REF~9V	Used		
	D			ment Summary	
Must Use	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	<u>Name</u> Reference Identi	fication Qualifier	Attributes M ID 2/3
			Code qualifying t	he Reference Identification	
			9V	Payment Category	
				Indicates whether the customer is to be Purchase of Receivables (POR) progra	-
Must Use	REF02	127	Reference Identi		X AN 1/30
Reference information as defined for a particular Transaction Set or specified by the Reference Identification Qualifier NNCustomer should NOT be signed up for the POR Customer should be signed up for the POR pro-YCustomer should be signed up for the POR pro-				r the POR program.	

Synt Seman	Segment: Position: Loop: Level: Usage: Max Use: Purpose: ax Notes: tic Notes: omments: Notes:	REF Reference Identification (Rate Zone) 120 N1 Optional Heading Optional 12 To specify identifying information 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. 1 REF04 contains data relating to the value cited in REF02. 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 II REF~SPL~RATE ZONE III					
			Data Element Summary				
	Ref.	Data	2 au Doment Summury				
Must Use	<u>Des.</u> REF01	Element	Name Reference Identification Qualifier		ributes		
wiust Use	KEFUI	128	Reference Identification Qualifier Code qualifying the Reference Identification	IVI	ID 2/3		
			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				

Synt Seman	Segment: Position: Loop: Level: Usage: Max Use: Purpose: ax Notes: tic Notes: omments: Notes:	010 PTD Detail Mandato 1 To indica provide i 1 If eiu 2 If eiu Required There wi PTD~SU	Mandatory ry ate the start of detail i dentifying data ther PTD02 or PTD02 ther PTD04 or PTD03	and Resale Detail (Summary) information relating to the transfer/resale 3 is present, then the other is required. 5 is present, then the other is required.	of a p	product and
			Data Elem	ent Summary		
Must Use	Ref. <u>Des.</u> PTD01	Data <u>Element</u> 521	<u>Name</u> Product Transfer '			<u>ributes</u> ID 2/2
1.1				e type of product transfer		
			SU	Summary This will be the total of all PM PL and For Ameren, it will be by service point For ComEd, it will be by account/rate of		pops.
	PTD04	128	Reference Identifie		X	ID 2/3
			Code qualifying the	e Reference Identification		
			Ameren: Required ComEd: Not Used OZ	Product Number		
				Commodity		
	PTD05	127	Reference Identifie		X	AN 1/30
				ion as defined for a particular Transaction ference Identification Qualifier Electric Gas	n Set o	or as

	Segment:	DTN	A Date/Time Reference (Service Period Start)					
	Position:							
	Loop: PTD Mandatory							
	Level:	Detail						
	Usage:	Optional						
	Max Use:	10						
	Purpose:		fy pertinent dates and times					
Synt	tax Notes:		east one of DTM02 DTM03 or DTM05 is required.					
			TM04 is present, then DTM03 is required.					
~		3 If ei	ther DTM05 or DTM06 is present, then the other is required.					
	ntic Notes:							
C	omments:							
	Notes: Required							
		This date	reflects the beginning of the date range for this billing period					
		DTM~15	50~20081201					
			Data Element Summary					
	Ref.	Data						
	Des.	<u>Element</u>	Name	Attributes				
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3				
			Code specifying type of date or time, or both date and time					
			150 Service Period Start					
Must Use	DTM02	373	Date	X DT 8/8				
			Date expressed as CCYYMMDD					
			r					

	Segment:	DTN	A Date/Time Reference (Service Period End)				
	Position: 020						
	Loop: PTD Mandatory						
	Level:	Detail					
	Usage:	Optional					
	Max Use:	10					
	Purpose:	-	fy pertinent dates and times				
Synt	tax Notes:		east one of DTM02 DTM03 or DTM05 is required.				
			ΓM04 is present, then DTM03 is required.				
G		3 If eit	ther DTM05 or DTM06 is present, then the other is required.				
	tic Notes:						
C	omments:	D					
Notes: Required							
			reflects the ending of the date range for this billing period.				
		DTM~15	51~20081230				
			Data Element Summary				
	Ref.	Data					
	Des.	<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				
			1				

Synt	Segment: Position: Loop: Level: Usage: Max Use: Purpose: tax Notes: tic Notes: omments:	020 PTD Detail Optional 1 To specif 1 At le 2 If D' 3 If eit	Mandatory by pertinent dates and times ast one of DTM02 DTM FM04 is present, then D her DTM05 or DTM06	103 or DTM05 is required. TM03 is required. is present, then the other is required.		uubiak
 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 					g with the	
			Data Element	Summary		
	Ref.	Data	Dutu Element	Summury		
	Des.	Element	Name Data (Time Oraclification			<u>ibutes</u>
Must Use	DTM01	374	Date/Time Qualifier	f date or time, or both date and time	N	ID 3/3
			1	an Anniversary		
			_	et Metering Anniversary Month		
Must Use	DTM05	1250	Date Time Period For		X	ID 2/3
				te format, time format, or date and time	e forn	nat
			•	Ionth of Year in Numeric Format		
Must Use	DTM06	1251	Date Time Period		Х	AN 1/35
			Expression of a date, a	time, or range of dates, times or dates	and t	imes
		Net Metering Anniversary Month				

	Segment: Position: Loop:	030 PTD	Reference Identification (Utility Rate Class) Mandatory				
Level:DetailUsage:OptionalMax Use:20Purpose:To specify identifying informationSyntax Notes:1At least one of REF02 or REF03 is required.2If either C04003 or C04004 is present, then the other is required.3If either C04005 or C04006 is present, then the other is required.Semantic Notes:1REF04 contains data relating to the value cited in REF02.							
C	Notes: Required REF~NH~GS1~Large-GS						
	D f	D (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				
			NH Rate Card Number				
			Utility Rate Class				
Must Use	REF02	127	Utility Rate Class Reference Identification	X AN 1/30			
Must Use	REF02	127	-	Transaction Set or as			
Must Use	REF02 REF03	127 352	Reference Identification Reference information as defined for a particular specified by the Reference Identification Qualifie	Transaction Set or as			
Must Use			Reference Identification Reference information as defined for a particular specified by the Reference Identification Qualifie Utility Rate Class	Transaction Set or as Transaction Set or as Transaction Set or as			

Synt Seman	Segment: REF Reference Identification (Load Profile) Position: 030 Loop: PTD Mandatory Level: Detail Usage: Optional Max Use: 20 Purpose: To specify identifying information ntax 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. at REF04 contains data relating to the value cited in REF02.							
	Notes: Required REF~LO~GS							
			Data Element Summary					
	Ref.	Data	Dutu Elenioni Summury					
	Des.	Element	Name		ributes			
Must Use	REF01	128	Reference Identification Qualifier	Μ	ID 2/3			
			Code qualifying the Reference Identification					
			LO Load Planning Number					
			Load Profile					
Must Use	REF02	127	Reference Identification	Х	AN 1/30			
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier	1 Set o	or as			
			Load Profile					

	Segment:	REF	Reference Ider	ntification (Supply Group)				
	Position:	030	Kerer ence fuer	tineation (Supply Group)				
	Loop:	PTD	Mandatory					
	Level:	Detail	Wandatory					
	Usage:	Optional						
	Max Use:	20						
	Purpose:							
Synt	Syntax Notes: 1 At least one of REF02 or REF03 is required.							
- J)4004 is present, then the other is req	uired.			
				04006 is present, then the other is req				
Seman	tic Notes:			elating to the value cited in REF02.				
C	omments:			C				
	Notes:	Note: Su	pply group will be	e shown in REF03 due to the length o	of the supply group names.			
		Ameren: Custome service te charges f retail cus	erritory so that retains for the procurement	re designations for retail customers lo ail customers can be categorized for t nt of electric power and energy and a e the ComEd tariff for additional deta ng	he purposes of computing pplying such charges to			
			Data El	ement Summary				
	Ref.	Data		•				
	Des.	Element	<u>Name</u>		<u>Attributes</u>			
Must Use	REF01	128	Reference Ident	tification Qualifier	M ID 2/3			
			Code qualifying	the Reference Identification				
			PTC	Patent Type				
				Supply Group				
	DEEAS	250	Description	Supply Group	V AN 1/99			
Must Use	REF03	352	Description		X AN 1/80			

			Supply Oroup	
Must Use	REF03	352	Description	X AN 1/80
			A free-form description to clarify the related data elem	ents and their content
			Supply Group	

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Synt	Segment: Position: Loop: Level: Usage: Max Use: Purpose: tax Notes: ottic Notes: omments: Notes:	030 PTD Detail Optional 20 To specif 1 At le 2 If eir 3 If eir 1 REF	Mandatory fy identifying inform east one of REF02 or ther C04003 or C040 ther C04005 or C040 704 contains data rela		: Indicator)		
	Gas: Not Used REF~AN~N						
	Ref.	Data	Data Elen	nent Summary			
Must Use	<u>Des.</u> REF01	Element 128	<u>Name</u> Reference Identifi	action Qualifiar	<u>Attributes</u> M ID 2/3		
winst Ose	KLIUI	120		e Reference Identification	WI ID 2/5		
			AN	Associated Purchase Orders			
				Community Solar Participant Indicator	r		
Must Use	REF02	127	Reference Identifi		X AN 1/30		
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier N No				
			Y	This customer does not participate in C for this Service Point (Ameren) Yes	Community Solar		
				This customer participates in Commur Service Point (Ameren)	ity Solar for this		

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

nary

	Ref.	Data				
	Des.	Element	Name		Attr	<u>ributes</u>
Must Use	QTY01	673	Quantity Qualifier		Μ	ID 2/2
			Code specifying the	e type of quantity		
			KA	Estimated		
				Used when Quantity in QTY02 is Estim	ated	
			QD	Quantity Delivered		
				Used when Quantity in QTY02 is Actua	ıl Rea	ding
Must Use	QTY02	380	Quantity		Х	R 1/15
			Numeric value of qu	uantity		
			Represents quantity	of consumption delivered for service per	iod	
Must Use	QTY03	C001	Composite Unit of	Measure	0	
				osite unit of measure (See Figures Appen	dix fo	or examples
	~~~		of use)			
Must Use	C00101	355	Unit or Basis for M		Μ	ID 2/2
			Code specifying the which a measureme	e units in which a value is being expressed	l, or r	nanner in
			K1	Kilowatt Demand		
			IX1	KW		
			К3			
			K)	Kilovolt Amperes Reactive Hour		
				KVARH		
			КН	Kilowatt Hour		
				KWH		
			TD	Therms		

Segment: Position: Loop: Level: Usage: Max Use: Purpose: Syntax Notes: Semantic Notes: Comments:	<ul> <li>160</li> <li>QTY</li> <li>Detail</li> <li>Optional</li> <li>40</li> <li>To specifiand weig</li> <li>1 At let</li> <li>2 If M</li> <li>3 If M</li> <li>4 If M</li> <li>5 Only</li> <li>1 MEA</li> <li>1 Whe</li> </ul>	fy physical measurer hts (See Figures Ap east one of MEA03 M EA05 is present, the EA06 is present, the EA07 is present, the y one of MEA08 or M A04 defines the unit en citing dimensiona	ments or counts, including dimensions, to opendix for example of use of C001) MEA05 MEA06 or MEA08 is required. on MEA04 is required. on MEA04 is required. on at least one of MEA03 MEA05 or MI MEA03 may be present. of measure for MEA03, MEA05, and M l tolerances, any measurement requiring	EA06 is required. IEA06. g a sign (+ or -), or		
Notes:	any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value. Required MEA~AA~PRQ~87~KH~~~51 MEA~AA~PRQ~3.5~K1~~~51					
			nent Summary			
Ref. <u>Des.</u> Must Use MEA01	Data <u>Element</u> 737	<u>Name</u> Measurement Ref	·	Attributes O ID 2/2		
Must Use MEA02	738	AA AE AF EA EE <b>Measurement Qu</b> Code identifying a measurement appli	specific product or process characterist es	ng actual ng estimated nding actual nding estimated O ID 1/3		
Must Use MEA03	739	PRQ Measurement Val	Product Reportable Quantity	X R 1/20		
		The value of the m	easurement			
MEA04	C001	<b>Composite Unit</b> of To identify a comp of use)	f Measure posite unit of measure (See Figures App	X bendix for examples		
Must Use C00101 Must Use MEA07	355 935	Code specifying th which a measurem K1 K3 KH TD Measurement Sig Code used to benck 41 42	Kilowatt Demand KW Kilovolt Amperes Reactive Hour KVARH Kilowatt Hour KWH Therms nificance Code hmark, qualify or further define a measu Off Peak On Peak	O ID 2/2		
		51	Total	October 5, 2022		

			7			
	Segment:	QTY	Quantity (Total)	<b>On-Site Generation</b> )		
	Position:	110				
	Loop:	QTY	Optional			
	Level:	Detail				
	Usage: Max Use:	Optional 1				
	Purpose:	-	fy quantity information	on		
Svn	tax Notes:		east one of QTY02 or			
~ 5				TY04 may be present.		
Semar	ntic Notes:			quantity is non-numeric.		
C	omments:					
	Notes:			ice point has on-site generation.		
			Not Used			
			*300*KH *AF*PRQ*300*KH*	**51		
		MEA ⁴	*AF*PKQ*300*KH*	***51		
			Data Elem	ent Summary		
	Ref.	Data		-		
	Des.	Element	<u>Name</u>			<u>ributes</u>
Must Use	<u>Des.</u> QTY01	Element 673	Quantity Qualifier		<u>Attı</u> M	<u>ributes</u> ID 2/2
Must Use			Quantity Qualifier Code specifying the	e type of quantity		
Must Use			Quantity Qualifier			
Must Use			Quantity Qualifier Code specifying the	e type of quantity		
Must Use			Quantity Qualifier Code specifying the	e type of quantity Quantity Received		
Must Use			Quantity Qualifier Code specifying the 87	e type of quantity Quantity Received Total On-Site Generation (Actual)		
Must Use Must Use			Quantity Qualifier Code specifying the 87	e type of quantity Quantity Received Total On-Site Generation (Actual) Estimated Duration		
	QTY01	673	Quantity Qualifier Code specifying the 87 9H	e type of quantity Quantity Received Total On-Site Generation (Actual) Estimated Duration Total On-Site Generation (Estimated)	Μ	ID 2/2
	QTY01	673	Quantity Qualifier Code specifying the 87 9H Quantity Numeric value of q	e type of quantity Quantity Received Total On-Site Generation (Actual) Estimated Duration Total On-Site Generation (Estimated)	Μ	ID 2/2
	QTY01	673	Quantity Qualifier Code specifying the 87 9H Quantity Numeric value of q	e type of quantity Quantity Received Total On-Site Generation (Actual) Estimated Duration Total On-Site Generation (Estimated) uantity on-site measured generation.	Μ	ID 2/2
Must Use	QTY01 QTY02	673 380	Quantity Qualifier         Code specifying the         87         9H         Quantity         Numeric value of q         Represents the total         Composite Unit of	e type of quantity Quantity Received Total On-Site Generation (Actual) Estimated Duration Total On-Site Generation (Estimated) uantity on-site measured generation.	M	ID 2/2 R 1/15
Must Use	QTY01 QTY02	673 380	Quantity Qualifier         Code specifying the         87         9H         Quantity         Numeric value of q         Represents the total         Composite Unit of	e type of quantity Quantity Received Total On-Site Generation (Actual) Estimated Duration Total On-Site Generation (Estimated) uantity on-site measured generation. <b>Measure</b>	M	ID 2/2 R 1/15
Must Use	QTY01 QTY02	673 380	Quantity Qualifier         Code specifying the         87         9H         Quantity         Numeric value of q         Represents the total         Composite Unit of         To identify a compo	e type of quantity Quantity Received Total On-Site Generation (Actual) Estimated Duration Total On-Site Generation (Estimated) uantity on-site measured generation. <b>Measure</b> posite unit of measure (See Figures Appendix	M	ID 2/2 R 1/15
Must Use Must Use	QTY01 QTY02 QTY03	673 380 C001	Quantity Qualifier         Code specifying the         87         9H         Quantity         Numeric value of q         Represents the total         Composite Unit of         To identify a compo         of use)         Unit or Basis for M         Code specifying the	e type of quantity Quantity Received Total On-Site Generation (Actual) Estimated Duration Total On-Site Generation (Estimated) uantity con-site measured generation. <b>Measure</b> posite unit of measure (See Figures Apper <b>Measurement Code</b> e units in which a value is being expressed	M M ndix fo O	ID 2/2 R 1/15 or examples ID 2/2
Must Use Must Use	QTY01 QTY02 QTY03	673 380 C001	Quantity Qualifier         Code specifying the         87         9H         Quantity         Numeric value of q         Represents the total         Composite Unit of         To identify a compo         of use)         Unit or Basis for M	e type of quantity Quantity Received Total On-Site Generation (Actual) Estimated Duration Total On-Site Generation (Estimated) uantity con-site measured generation. <b>Measure</b> posite unit of measure (See Figures Apper <b>Measurement Code</b> e units in which a value is being expressed	M M ndix fo O	ID 2/2 R 1/15 or examples ID 2/2

Seman	Segment: Position: Loop: Level: Usage: Max Use: Purpose: tax Notes: tax Notes: omments:	<ul> <li>160</li> <li>QTY</li> <li>Detail</li> <li>Optional</li> <li>40</li> <li>To specification</li> <li>To specificatio</li></ul>	A Measurements Optional (Dependent) fy physical measurements or counts, including dimensions, to the source of MEA03 measurements or counts, including dimensions, to the source of MEA03 measurements or counts, including dimensions, to the source of MEA03 measurements or measure of use of C001) east one of MEA03 MEA05 MEA06 or MEA08 is required. EA05 is present, then MEA04 is required. EA06 is present, then MEA04 is required. EA07 is present, then at least one of MEA03 MEA05 or ME y one of MEA08 or MEA03 may be present. A04 defines the unit of measure for MEA03, MEA05, and M en citing dimensional tolerances, any measurement requiring measurement where a positive (+) value cannot be assumed, ative (-) value and MEA06 as the positive (+) value. Required when service point has on-site generation. Not Used *300*KH *AF*PRQ*300*KH***51	A06 is EA06. a sign	required. (+ or -), or
	Ref.	Data	Data Element Summary		
	Dee	<b>T</b> 1 (	NT		
Must Use	<u>Des.</u> MEA01	Element 737	<u>Name</u> Measurement Reference ID Code		<u>ributes</u> ID 2/2
Must Use			Measurement Reference ID Code Code identifying the broad category to which a measurement	Μ	ID 2/2
	MEA01	737	Measurement Reference ID CodeCode identifying the broad category to which a measurementAFActual Total	M nt appl	ID 2/2 ies
Must Use Must Use			Measurement Reference ID CodeCode identifying the broad category to which a measurement AFAFActual TotalMeasurement Qualifier	M nt appl M	ID 2/2 ies ID 1/3
	MEA01	737	Measurement Reference ID Code         Code identifying the broad category to which a measurement         AF       Actual Total         Measurement Qualifier         Code identifying a specific product or process characteristic         measurement applies	M nt appl M	ID 2/2 ies ID 1/3
	MEA01	737	Measurement Reference ID Code         Code identifying the broad category to which a measurement         AF       Actual Total         Measurement Qualifier         Code identifying a specific product or process characteristic	M nt appl M c to wh	ID 2/2 ies ID 1/3
Must Use	MEA01 MEA02	737 738	Measurement Reference ID Code         Code identifying the broad category to which a measurement         AF       Actual Total         Measurement Qualifier         Code identifying a specific product or process characteristic         measurement applies         PRQ       Product Reportable Quantity	M nt appl M c to wh	ID 2/2 ies ID 1/3 iich a
Must Use	MEA01 MEA02	737 738	Measurement Reference ID CodeCode identifying the broad category to which a measurement AFAFActual TotalMeasurement QualifierCode identifying a specific product or process characteristic measurement applies PRQPRQProduct Reportable QuantityMeasurement Value	M nt appl M c to wh M	ID 2/2 ies ID 1/3 iich a R 1/20
Must Use	MEA01 MEA02	737 738	Measurement Reference ID Code         Code identifying the broad category to which a measurement         AF       Actual Total         Measurement Qualifier         Code identifying a specific product or process characteristic         measurement applies         PRQ       Product Reportable Quantity         Measurement Value         The value of the measurement	M nt appl M c to wh M	ID 2/2 ies ID 1/3 iich a R 1/20
Must Use	MEA01 MEA02 MEA03	737 738 739	Measurement Reference ID Code         Code identifying the broad category to which a measurement         AF       Actual Total         Measurement Qualifier         Code identifying a specific product or process characteristic         measurement applies         PRQ       Product Reportable Quantity         Measurement Value         The value of the measurement         Represents quantity of on-site generation received for servity	M nt appl M c to wh M ce peri X	ID 2/2 ies ID 1/3 iich a R 1/20 od.
Must Use Must Use	MEA01 MEA02 MEA03 MEA04	737 738 739 C001	Measurement Reference ID Code         Code identifying the broad category to which a measurement         AF       Actual Total         Measurement Qualifier         Code identifying a specific product or process characteristic         measurement applies         PRQ         Product Reportable Quantity         Measurement Value         The value of the measurement         Represents quantity of on-site generation received for servit         Composite Unit of Measure         To identify a composite unit of measure (See Figures Apper of use)	M nt appl M c to wh M ce peri X endix fo	ID 2/2 ies ID 1/3 tich a R 1/20 od.
Must Use	MEA01 MEA02 MEA03	737 738 739	Measurement Reference ID CodeCode identifying the broad category to which a measurement AFAFActual TotalMeasurement QualifierCode identifying a specific product or process characteristic measurement applies PRQPRQProduct Reportable QuantityMeasurement ValueThe value of the measurement Represents quantity of on-site generation received for servic Composite Unit of MeasureTo identify a composite unit of measure (See Figures Appel of use)Unit or Basis for Measurement Code	M nt appl M c to wh M ce peri X endix fo M	ID 2/2 ies ID 1/3 iich a R 1/20 od. or examples ID 2/2
Must Use Must Use	MEA01 MEA02 MEA03 MEA04	737 738 739 C001	Measurement Reference ID Code         Code identifying the broad category to which a measurement         AF       Actual Total         Measurement Qualifier         Code identifying a specific product or process characteristic         measurement applies         PRQ         Product Reportable Quantity         Measurement Value         The value of the measurement         Represents quantity of on-site generation received for servit         Composite Unit of Measure         To identify a composite unit of measure (See Figures Apper of use)	M nt appl M c to wh M ce peri X endix fo M	ID 2/2 ies ID 1/3 iich a R 1/20 od. or examples ID 2/2
Must Use Must Use	MEA01 MEA02 MEA03 MEA04	737 738 739 C001	Measurement Reference ID CodeCode identifying the broad category to which a measurement AFAFActual TotalMeasurement QualifierCode identifying a specific product or process characteristic measurement applies PRQPRQProduct Reportable QuantityMeasurement ValueThe value of the measurement Represents quantity of on-site generation received for servic Composite Unit of MeasureTo identify a composite unit of measure (See Figures Appendic Section S	M nt appl M c to wh M ce peri X endix fo M	ID 2/2 ies ID 1/3 iich a R 1/20 od. or examples ID 2/2
Must Use Must Use	MEA01 MEA02 MEA03 MEA04 C00101	737 738 739 C001 355	Measurement Reference ID CodeCode identifying the broad category to which a measurement AFAFActual TotalMeasurement QualifierCode identifying a specific product or process characteristic measurement applies PRQPRQProduct Reportable QuantityMeasurement ValueThe value of the measurementRepresents quantity of on-site generation received for serviComposite Unit of MeasureTo identify a composite unit of measure (See Figures Apper of use)Unit or Basis for Measurement CodeCode specifying the units in which a value is being expressed which a measurement has been taken KHKHKilowatt Hour	M nt appl M c to wh M ce peri X endix fo M ed, or r M	ID 2/2 ies ID 1/3 iich a R 1/20 od. or examples ID 2/2 manner in ID 2/2

		ОТТ	7		
	Segment:	U I V	Quantity (Total Off-Site Generation)		
	Position:	110			
	Loop:	QTY	Optional		
	Level:	Detail			
	Usage:	Optional			
	Max Use:	1			
	Purpose:		fy quantity information		
Syn	tax Notes:		east one of QTY02 or QTY04 is required.		
			one of QTY02 or QTY04 may be present.		
	tic Notes:	1 QTY	704 is used when the quantity is non-numeric.		
С	omments:				
	Notes:		Required when customer has off-site generation such as Comm	nunit	y Solar.
			Not Used		
		~	*100*KH		
		MEA*.	AF*PRQ*100*KH***51		
			D. 4. Element Community		
	Def	Data	Data Element Summary		
	Ref.		Nome	A ++-	
Must Use	<u>Des.</u> QTY01	Element 673	<u>Name</u> Quantity Qualifier	M	<u>ributes</u> ID 2/2
Winst Use	Q1101	075		IVI	11) 2/2
			Code specifying the type of quantity		
			77 Stock Transfers In		
			Off-Site Generation (Community Solar)	1	
Must Use	QTY02	380	Quantity	Μ	R 1/15
			Numeric value of quantity		
			Represents the total off-site generation (e.g., Community Sol	ar)	
Must Use	QTY03	C001		M	
Must Use	Q1105	C001	Composite Unit of Measure		
			To identify a composite unit of measure (See Figures Appen of use)	dix fo	or examples
Must Use	C00101	355	Unit or Basis for Measurement Code	Μ	ID 2/2
			Code specifying the units in which a value is being expressed which a measurement has been taken KH Kilowatt Hour	l, or r	nanner in

Semar	Segment: Position: Loop: Level: Usage: Max Use: Purpose: tax Notes: tax Notes: omments:	<ul> <li>160</li> <li>QTY</li> <li>Detail</li> <li>Optional</li> <li>40</li> <li>To specification</li> <li>and weige</li> <li>1 At lefter the second second</li></ul>	A Measurements Optional (Dependent) fy physical measurements or counts, including dimensions, tol hts (See Figures Appendix for example of use of C001) east one of MEA03 MEA05 MEA06 or MEA08 is required. EA05 is present, then MEA04 is required. EA06 is present, then MEA04 is required. EA07 is present, then at least one of MEA03 MEA05 or MEA y one of MEA08 or MEA03 may be present. A04 defines the unit of measure for MEA03, MEA05, and ME en citing dimensional tolerances, any measurement requiring a measurement where a positive (+) value cannot be assumed, u tive (-) value and MEA06 as the positive (+) value. Required when customer has off-site generation such as Com Not Used *100*KH	A06 is CA06. sign ( se MI	required. (+ or -), or EA05 as the
		MEA*.	AF*PRQ*100*KH***51		
			Data Element Summary		
Must Use	Ref. <u>Des.</u> MEA01	Data <u>Element</u> 737	<u>Name</u> Measurement Reference ID Code		ributes ID 2/2
			Code identifying the broad category to which a measurement AF Actual Total	t appli	ies
Must Use	MEA02	738	Measurement Qualifier	Μ	ID 1/3
			Code identifying a specific product or process characteristic measurement applies PRQ Product Reportable Quantity	to wh	ich a
Must Use	MEA03	739	Measurement Value	Μ	R 1/20
			The value of the measurement		
			Represents quantity of off-site generation (e.g., Community service period.		received for
	MEA04	C001	Composite Unit of Measure	Х	
			To identify a composite unit of measure (See Figures Apper of use)	ıdix fo	or examples
Must Use	C00101	355	Unit or Basis for Measurement Code	Μ	ID 2/2
			Code specifying the units in which a value is being expressed which a measurement has been taken KH Kilowatt Hour	d, or r	nanner in
Must Use	<b>MEA07</b>	935	Measurement Significance Code	Μ	ID 2/2
			Code used to benchmark, qualify or further define a measure51Total	ment	value

Semai	Segment: Position: Loop: Level: Usage: Max Use: Purpose: tax Notes: ntic Notes: comments: Notes:	110 QTY Detail Optional 1 To speci: 1 At le 2 Only 1 QTY	704 is used when the	'n		
		ComEd: QTY*QI	NotUsed 4*500*KH AF*PRQ*500*KH**	**51		
	Ref.	Data	Data Elem	ent Summary		
	Des.	<u>Element</u>	Name		Atti	ributes
Must Use	QTY01	673	Quantity Qualifier		Μ	ID 2/2
			Code specifying the	type of quantity		
			QH	Quantity on Hold		
				Starting Bank		
Must Use	QTY02	380	Quantity		Μ	R 1/15
			Numeric value of qu	antity		
			Represents the kWh	that were banked from prior month's exc	cess g	eneration
	0	~~~	including both on ar			
Must Use	QTY03	C001	Composite Unit of		Μ	_
			• 1	osite unit of measure (See Figures Appen	idix fo	or examples
Must Use	C00101	355	of use) Unit or Basis for M	leasurement Code	М	ID 2/2
				units in which a value is being expressed		-

Semai	Segment: Position: Loop: Level: Usage: Max Use: Purpose: atax Notes: tax Notes: Comments:	<ul> <li>160</li> <li>QTY</li> <li>Detail</li> <li>Optional</li> <li>40</li> <li>To specification</li> <li>and weige</li> <li>1 At lefter the second second</li></ul>	A Measurements Optional (Dependent) fy physical measurements or counts, including dimensions, to hts (See Figures Appendix for example of use of C001) east one of MEA03 MEA05 MEA06 or MEA08 is required. EA05 is present, then MEA04 is required. EA06 is present, then MEA04 is required. EA07 is present, then at least one of MEA03 MEA05 or ME y one of MEA08 or MEA03 may be present. A04 defines the unit of measure for MEA03, MEA05, and M en citing dimensional tolerances, any measurement requiring measurement where a positive (+) value cannot be assumed, attive (-) value and MEA06 as the positive (+) value. Required when service point has a Starting Bank. Not Used 1*500*KH AF*PRQ*500*KH***51	A06 is EA06. a sign (	required. (+ or -), or
			Data Element Summary		
	Ref.	Data		• • •	
Must Use	<u>Des.</u> MEA01	Element 737	<u>Name</u> Measurement Reference ID Code		<u>ributes</u> ID 2/2
in all of the			Code identifying the broad category to which a measurement		-
			AF Actual Total	· · · r r	
Must Use	MEA02	738	Measurement Qualifier	Μ	ID 1/3
			Code identifying a specific product or process characteristic	to wh	ich a
			measurement applies		
Must Use	MEA03	739	PRQ Product Reportable Quantity Measurement Value	М	R 1/20
wiust Use	WILAUS	139	The value of the measurement	IVI	K 1/20
			Represents the kWh that were banked from prior month's ex	xcess g	eneration
			including both on and off-site.		
	MEA04	C001	Composite Unit of Measure	X	
			To identify a composite unit of measure (See Figures Appe of use)	endix fo	or examples
Must Use	C00101	355	Unit or Basis for Measurement Code	Μ	ID 2/2
			Code specifying the units in which a value is being express		
			which a measurement has been taken		
			KH Kilowatt Hour		
Must Lice	MEA07	025	Magguramant Significance Code	М	ID 2/2
Must Use	MEA07	935	<b>Measurement Significance Code</b>	M	<b>ID 2/2</b> value
Must Use	MEA07	935	Measurement Significance CodeCode used to benchmark, qualify or further define a measur51Total		

Segment:	$\operatorname{PTD}$ Product Transfer and Resale Detail (Non-Interval Metered Services
	<b>Detail</b> )
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:	<ol> <li>If either PTD02 or PTD03 is present, then the other is required.</li> <li>If either PTD04 or PTD05 is present, then the other is required.</li> </ol>
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**

Must Use	Ref. <u>Des.</u> PTD01	Data <u>Element</u> 521	<u>Name</u> Product Transfer 7	Гуре Code				
			Code identifying the	e type of product transfer				
			PL	Property Level Movement/Sale				
				A PL loop will be provided for each nor	Movement/Sale be provided for each non-interval meter. X ID 2/3 Fication X AN 1/30			
	PTD04	128	<b>Reference Identific</b>	cation Qualifier	Х	ID 2/3		
			Code qualifying the	Reference Identification				
			Ameren: Required ComEd: Not Used					
			OZ	Product Number				
				Commodity				
	PTD05	127	<b>Reference Identific</b>	cation	Х	AN 1/30		
			specified by the Ref	ion as defined for a particular Transaction ference Identification Qualifier	Set	or as		
			Ameren: Required					
			ComEd: Not Used EL	Electric				

	Segment:	DTN	<b>I</b> Date/Time Reference (Meter Change Date)				
	Position:	020					
	Loop:	PTD	Mandatory				
	Level:	Detail					
	Usage:	Optional					
	Max Use:	10					
	Purpose:	1	y pertinent dates and times				
Synt	ax Notes:		ast one of DTM02 DTM03 or DTM05 is required.				
			ΓM04 is present, then DTM03 is required.				
~		3 If eit	her DTM05 or DTM06 is present, then the other is required	,			
	tic Notes:						
C	omments:						
	Notes:	-	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					
	Des.	<u>Element</u>	Name	<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				
			514 Transferred				
			Exchanged meter read date				
Must Use	DTM02	373	Date	X DT 8/8			
		010	Date expressed as CCYYMMDD				
			Date expressed as CCT TIMIMDD				

	Segment:	DTN	<b>Date/Time Reference (Service Period Start)</b>				
	Position:	020					
	Loop:	PTD	Mandatory				
	Level:	Detail					
	Usage:	Optional					
	Max Use:	10					
	Purpose:		fy pertinent dates and times				
Synt	tax Notes:		east one of DTM02 DTM03 or DTM05 is required.				
			TM04 is present, then DTM03 is required.				
G	· • •	3 If ei	ther DTM05 or DTM06 is present, then the other is required.				
	tic Notes:						
C	omments: Notes:	D a surias d					
	notes:	Required					
			reflects the beginning of the date range for this meter.				
		DTM~15	50~20081201				
	<b>D</b> 4	<b>D</b> (	Data Element Summary				
	Ref.	Data	N	• • •	•1		
Mar of The	Des.	Element	Name		ributes		
Must Use	DTM01	374	Date/Time Qualifier	IVI	ID 3/3		
			Code specifying type of date or time, or both date and time				
			150 Service Period Start				
Must Use	DTM02	373	Date	Х	DT 8/8		
			Date expressed as CCYYMMDD				
			-				

	Segment:	DTN	<b>Date/Time Reference (Service Period End)</b>				
	Position:	020					
	Loop:	PTD	Mandatory				
	Level:	Detail					
	Usage:	Optional					
	Max Use:	10					
	Purpose:		Ty pertinent dates and times				
Synt	tax Notes:		east one of DTM02 DTM03 or DTM05 is required.				
			ΓM04 is present, then DTM03 is required.				
G		3 If eit	ther DTM05 or DTM06 is present, then the other is required.				
	tic Notes:						
C	omments:	<b>D</b>					
	Notes:	Required					
			reflects the ending of the date range for this meter.				
		DTM~15	51~20081231				
		_	Data Element Summary				
	Ref.	Data	N	<b>.</b> .			
	Des.	Element	Name	<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:	REF	Reference Identification (Meter Number)				
	Position:	030					
	Loop:	PTD	Mandatory				
	Level:	Detail					
	Usage:	Optional					
]	Max Use:	20					
	Purpose:	To specif	fy identifying information				
Synt	ax Notes:		east one of REF02 or REF03 is required.				
-		2 If eit	ther C04003 or C04004 is present, then the other is required.				
		3 If eit	her C04005 or C04006 is present, then the other is required.				
Seman	tic Notes:	1 REF	04 contains data relating to the value cited in REF02.				
Co	omments:						
	Notes:	Required service p REF~MO		ive during the			
		KEF~MC	J~12343				
			Data Element Summary				
	Ref.	Data	•				
	Des.	Element	Name	Attributes			
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			
Must ese	KLI V2	127	Reference information as defined for a particular Transaction Set or as				
			1	i Set of as			
			specified by the Reference Identification Qualifier Meter Number				

	Segment: Position: Loop: Level: Usage: Max Use: Purpose:	030 PTD Detail Optional 20 To specif	Mandatory fy identifying inf		on)
Syn	tax Notes:	2 If eit	ther C04003 or C	2 or REF03 is required. 204004 is present, then the other is requir	
	ntic Notes: comments: Notes:	1 REF Electric:	04 contains data Optional	204006 is present, then the other is requir relating to the value cited in REF02.	ed.
		Gas: Not REF~KY			
	Ref.	Data	Data E	lement Summary	
	Des.	Element	Name		Attributes
Must Use	REF01	128		ntification Qualifier	M ID 2/3
				g the Reference Identification	nd Conditions
			KY	Site Specific Procedures, Terms, a Special Meter Configuration	
Must Use	REF02	127	Reference Ider		X AN 1/30
Must Osc	KEF V2	127		mation as defined for a particular Transa	
				Reference Identification Qualifier	letion bet of us
			Special Meter C		
			AL	Auxiliary Load (ComED)	
			BMG	Behind the Meter Generation (Ame	eren)
			СМ	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)	
			ΙΟ	In/Out Meter Flow Through (Com	
			IW	In/Out Without Flow Through (Co	mEd)
			KQ	KQ Only (ComEd)	
			NM-BI	Net Metering - Bidirectional Meter	
			NM-GG	Net Metering - Gross Generation N	
			NM-GL	Net Metering - Gross Load Meter	(Ameren)
			OF	Out with Flow Through (ComEd)	
			OW	Out without Flow Through (ComE	
			PG	Power Factor General Service (Co	
			PS	Power Factor Space Heat (ComEd	)
			SH	Space Heating (ComEd)	
			XY	Rider VA Gen Meter (ComEd)	

Segment:	<b>REF</b> 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.
	<b>3</b> 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.
<b>Comments:</b>	
Notes:	Required

REF~MT~KHMON

	<u>анг</u> М	<u>ibutes</u>	
		ID 2/3	
Code qualifying the Reference Identification			
MT Meter Ticket Number			
Meter Type			
Must UseREF02127Reference Identification	X	AN 1/30	
Reference information as defined for a particular Transaction S specified by the Reference Identification Qualifier When REF01 is MT, the meter type is expressed as a five-chara first two characters are the type of consumption, the last three c 	acte char	r field. The acters are	;

Segment:	<b>REF</b> 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.
	<b>3</b> If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	<b>1</b> REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>	
Notes:	Required

REF~	IH~4	7

Must Use	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128		ification Qualifier	<u>Attı</u> M	ributes ID 2/3
			Code qualifying t	the Reference Identification		
			JH	Tag		
				Meter Role		
Must Use	REF02	127	<b>Reference Ident</b>	ification	Х	AN 1/30
				ation as defined for a particular Transaction Reference Identification Qualifier	n Set (	or as
			А	Additive - this consumption contributed summarized total (do nothing).	d to th	e
			Ι	Ignore - this consumption did not contr summarized total (do nothing).	ibute	to the
			S	Subtractive - this consumption needs to from the summarized total.	be su	btracted

Synt Seman	Segment: Position: Loop: Level: Usage: Max Use: Purpose: ax Notes: tic Notes: omments: Notes:	030 PTD Detail Optional 20 To specif 1 At le 2 If eit 3 If eit 1 REF	Mandatory fy identifying inform east one of REF02 or ther C04003 or C040 her C04005 or C040	REF03 is required. 04 is present, then the other is required. 06 is present, then the other is required. ting to the value cited in REF02.		
		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 Elem	ent Summary		
Must Use	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	<u>Name</u> Reference Identifie	cation Qualifier	Attributes M ID 2/3	
			Code qualifying the 4P	<ul> <li>Reference Identification</li> <li>Affiliation Number</li> <li>Meter Constant (Meter Multiplier)</li> <li>(Ending Reading - Beginning Reading)</li> <li>Constant = Consumption</li> </ul>	) * Meter	
Must Use	REF02	127		*	X AN 1/30 n Set or as	

Segment:REF Reference Identification (Number of Dials)Position:030Loop:PTDMandatoryLevel:DetailUsage:OptionalMax Use:20Purpose:To specify identifying informationSyntax Notes:1At least one of REF02 or REF03 is required.2If either C04003 or C04004 is present, then the other is required.3If either C04005 or C04006 is present, then the other is required.Semantic Notes:1REF04 contains data relating to the value cited in REF02.							
	Notes:	<ul> <li>Required</li> <li>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.</li> <li>REF~IX~6.0 Meter has 6 digits to the left of the decimal and none to the right.</li> <li>REF~IX~5.1 Meter has 5 digits to the left of the decimal and one to the right.</li> </ul>					
			Data Element Summary	0			
Must Use	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	NameReference Identification QualifierCode qualifying the Reference IdentificationIXItem Number	<u>Attr</u> M	ributes ID 2/3		
Must Use	REF02	127	Number of Dials Reference Identification	X	AN 1/3		
Must Ust	KEF 02	127	Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier Number of Dials				

Synt Seman	Segment: Position: Loop: Level: Usage: Max Use: Purpose: ax Notes: tic Notes: pmments:	030 PTD Detail Optional 20 To specif 1 At le 2 If eir 3 If eir 1 REF	fy identifying information east one of REF02 or REF03 is required. ther C04003 or C04004 is present, then the other is required. ther C04005 or C04006 is present, then the other is required. 04 contains data relating to the value cited in REF02.				
	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					
	Ref.	Data	Data Element Summary				
	Des.	<u>Element</u>	Name	<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 specified by the Reference Identification Qualifier	1 Set or as			
			Transformer Loss Multiplier				

Synt	Segment: Position: Loop: Level: Usage: Max Use: Purpose: ax Notes: tic Notes: omments: Notes:	110 QTY Detail Optional 1 To specifi 1 At let 2 Only 1 QTY There with kVARH, three value Required	fy quantity information east one of QTY02 or y one of QTY02 or Q (04 is used when the of 11 be one QTY loop for Therms). If a meter sues would be contained			
			Data Elemo	ent Summary		
Must Use	Ref. <u>Des.</u> QTY01	Data <u>Element</u> 673	<u>Name</u> Quantity Qualifier		<u>Attr</u> M	<u>ibutes</u> ID 2/2
			Code specifying the KA	Estimated		
			QD	Used when Quantity in QTY02 is Estima Quantity Delivered Used when Quantity in QTY02 is Actual		ding
Must Use	QTY02	380	Quantity		Х	R 1/15
			Numeric value of qu	-		
				of consumption delivered for service period		
Must Use	QTY03	C001	Composite Unit of		0	
			To identify a compo of use)	site unit of measure (See Figures Append	1x to	or examples
Must Use	C00101	355	Unit or Basis for M	leasurement Code	М	ID 2/2
				units in which a value is being expressed,		
			K3	Kilovolt Amperes Reactive Hour KVARH		
			KH	KVARH Kilowatt Hour KWH		
			TD	Therms		

Syn Semar	Segment: Position: Loop: Level: Usage: Max Use: Purpose: tax Notes: tax Notes: omments:	<ul> <li>160</li> <li>QTY</li> <li>Detail</li> <li>Optional</li> <li>40</li> <li>To specir</li> <li>and weig</li> <li>1 At lef</li> <li>2 If M</li> <li>3 If M</li> <li>4 If M</li> <li>5 Only</li> <li>1 MEz</li> <li>1 Whete any</li> </ul>	fy physical measurer that (See Figures Ap east one of MEA03 M EA05 is present, the EA06 is present, the EA07 is present, the y one of MEA08 or M A04 defines the unit en citing dimensional measurement where titive (-) value and M	(Readings) nents or counts, including dimensions, to opendix for example of use of C001) MEA05 MEA06 or MEA08 is required. n MEA04 is required. n MEA04 is required. n at least one of MEA03 MEA05 or ME. MEA03 may be present. of measure for MEA03, MEA05, and MI I tolerances, any measurement requiring a positive (+) value cannot be assumed, to EA06 as the positive (+) value.	A06 is 1 EA06. a sign (-	required. + or -), or
			A~PRQ~87~KH~10			
		MEA~A	A~PRQ~3.5~K1~~3	5.5~51		
	-	<b>—</b> .	Data Elem	nent Summary		
	Ref. <u>Des.</u>	Data <u>Element</u>	Name		Attr	ibutes_
Must Use	MEA01	737	Measurement Ref	erence ID Code		ID 2/2
			Code identifying th	ne broad category to which a measurement	nt applie	es
			AA	Meter reading-beginning actual/ending	g actual	
			AE	Meter reading-beginning actual/ending	g estima	ited
			AF	Actual Total		
			EA	Meter reading-beginning estimated/en	ding act	tual
			EE	Meter reading-beginning estimated/en	-	
Must Use	MEA02	738	Measurement Qua		-	ID 1/3
			•	specific product or process characteristic	e to whi	ch a
Must Use	MEA03	739	Measurement Val	ue	Х	R 1/20
			The value of the me	easurement		
	MEA04	C001	Composite Unit of	f Measure	Х	
				osite unit of measure (See Figures Appe	ndix fo	r examples
			of use)			-
Must Use	C00101	355	Unit or Basis for <b>N</b>	Measurement Code	Μ	ID 2/2
			Code specifying the which a measureme K1	e units in which a value is being expresse ent has been taken Kilowatt Demand KW	ed, or m	anner in
			K3	Kilovolt Amperes Reactive Hour		
			K5	KVARH		
			KH	Kilowatt Hour		
			КП			
			TD	KWH		
Dor	ME 4 0 <i>5</i>	740	TD Banga Minimum	Therms	v	D 1/20
Dep	MEA05	740	Range Minimum	a ••• •••		R 1/20
				ng the minimum of the measurement rang	ge	
			Beginning Read			
			Required if the met	ter provides beginning reads and is meas	uring K	WH.
			Not used on K1 (de		anng it	
CPWG 867 N	Aonthly Usag	e Version 2 /		48	0	ctober 5, 2023

Must Use	MEA06	741	Range Maxir	num	X	R 1/20		
			The value spe	cifying the maximum of the measurement	range			
			Ending readin	ng for the meter or single reading for K1				
Must Use	MEA07	935	Measuremen	t Significance Code	0	ID 2/2		
			Code used to	ode used to benchmark, qualify or further define a measurement				
			41	Off Peak				
			42	On Peak				
			51	Total				

Synt	Segment: Position: Loop: Level: Usage: Max Use: Purpose: tax Notes: tax Notes: omments:	<ul> <li>160</li> <li>QTY</li> <li>Detail</li> <li>Optional</li> <li>40</li> <li>To specifiand weige</li> <li>1 At let</li> <li>2 If M</li> <li>3 If M</li> <li>4 If M</li> <li>5 Only</li> <li>1 MEA</li> <li>1 Whete any second second</li></ul>	Ty physical measurements or counts, including dimensions, tole hts (See Figures Appendix for example of use of C001) east one of MEA03 MEA05 MEA06 or MEA08 is required. EA05 is present, then MEA04 is required. EA06 is present, then MEA04 is required. EA07 is present, then at least one of MEA03 MEA05 or MEA one of MEA08 or MEA03 may be present. A04 defines the unit of measure for MEA03, MEA05, and ME n citing dimensional tolerances, any measurement requiring a measurement where a positive (+) value cannot be assumed, us tive (-) value and MEA06 as the positive (+) value. Not Used uired - This factor is used to convert CCF to Therms for billin Reading - Beginning Reading) * Meter Constant * Therm Fact	06 is A06. sign ( se MI g pur	required. (+ or -), or EA05 as the poses.	
			Data Element Summary			
	Ref.	Data				
Must Use	<u>Des.</u> MEA02	Element 738	<u>Name</u> Measurement Qualifier		<u>ributes</u> ID 1/3	
			Code identifying a specific product or process characteristic to measurement applies CF Capacitance Out Therm Factor			
Must Use	MEA03	739	Measurement Value	Μ	R 1/20	
			The value of the measurement			
		Therm Factor				

Segment:	<b>PTD</b> 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:	<ol> <li>If either PTD02 or PTD03 is present, then the other is required.</li> <li>If either PTD04 or PTD05 is present, then the other is required.</li> </ol>
Semantic Notes:	
<b>Comments:</b>	
Notes:	For Ameren: Will be used if unmetered services are on the account. Also, in the rare cases when an adjustment to the usage is requested by the customer and a cancel and rebill will not handle the adjustment amount. The adjustment could be for metered services. Ameren may have more than one BC loop per transaction as they will keep all adjustments in separate BC loops.
	For ComEd: Will be used if unmetered services are on the account. ComEd will never have more than one BC loop per transaction. Note: The sending of the PL loop is optional when this is a cancel transaction (BPT01=01). PTD~BC
	PTD~BC~~~OZ~EL
	Data Element Summary
Ref.	Data

Must Use	Ref. <u>Des.</u> PTD01	Data <u>Element</u> 521	<u>Name</u> Product Transfer '	Type Code		<u>ributes</u> ID 2/2
			Code identifying the	Code identifying the type of product transfer		
			BC	Issue - Other Agency		
				A BC loop will be sent for unmetered se adjustments on the account/service poin		es or
	PTD04	128	<b>Reference Identifie</b>	cation Qualifier	Х	ID 2/3
			Code qualifying the	Reference Identification		
			Ameren: Required ComEd: Not Used			
			OZ	Product Number		
				Commodity		
	PTD05	127	<b>Reference Identifie</b>	cation	Х	AN 1/30
				ion as defined for a particular Transaction ference Identification Qualifier	Set o	or as
			Ameren: Required			
			ComEd: Not Used			
			EL	Electric		
			GAS	Gas		

	Segment:	DTN	<b>Date/Time Reference (Service Period Start)</b>		
	Position:	020			
	Loop:	PTD	Mandatory		
	Level:	Detail			
	Usage:	Optional			
	Max Use:	1			
	Purpose:	To specif	fy pertinent dates and times		
Synt	tax Notes:		east one of DTM02 DTM03 or DTM05 is required.		
			TM04 is present, then DTM03 is required.		
		3 If ei	ther DTM05 or DTM06 is present, then the other is required.		
	tic Notes:				
С	omments:				
	Notes:	Required	l		
		This date	e reflects the beginning of the date range for this unmetered ser	rvice.	
		DTM~15	50~20081201		
			Data Element Summary		
	Ref.	Data	·		
	Des.	<b>Element</b>	Name	Attr	<u>ributes</u>
Must Use	DTM01	374	Date/Time Qualifier	Μ	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
must Use	111104	515		1	<b>DI</b> 0/0
			Date expressed as CCYYMMDD		

	Segment:	DTN	<b>Date/Time Reference (Service Period End)</b>	
	Position:	020		
	Loop:	PTD	Mandatory	
	Level:	Detail		
	Usage:	Optional		
	Max Use:	1		
	Purpose:	To specif	fy pertinent dates and times	
Synt	tax Notes:	<b>1</b> At le	east one of DTM02 DTM03 or DTM05 is required.	
			TM04 is present, then DTM03 is required.	
		3 If eit	ther DTM05 or DTM06 is present, then the other is required.	
Seman	tic Notes:			
С	omments:			
	Notes:	Required		
		This date	reflects the ending of the date range for this unmetered service	e.
		DTM~15	51~20081231	
			Data Element Summary	
	Ref.	Data	·	
	Des.	Element	Name	<b>Attributes</b>
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
winst Use	D11102	515		A DI 0/0
			Date expressed as CCYYMMDD	

Synt	Segment: Position: Loop: Level: Usage: Max Use: Purpose: tax Notes: ottic Notes: omments: Notes:	<ul> <li>030</li> <li>PTD Mandatory</li> <li>Detail</li> <li>Optional</li> <li>20</li> <li>To specify identifying information</li> <li>1 At least one of REF02 or REF03 is required.</li> <li>2 If either C04003 or C04004 is present, then the other is required.</li> <li>3 If either C04005 or C04006 is present, then the other is required.</li> <li>1 REF04 contains data relating to the value cited in REF02.</li> </ul>						
			Data Elem	nent Summary				
	Ref. <u>Des.</u>	Data Element	Name		<b>A</b> ##	ributes_		
Must Use	<u>Des.</u> REF01	<u>128</u>	Reference Identifi	ication Qualifier		ID 2/3		
			Code qualifying the	e Reference Identification				
			JH	Tag				
				Meter Role				
Must Use	REF02	127	<b>Reference Identifi</b>	ication	Х	AN 1/30		
				tion as defined for a particular Transaction ference Identification Qualifier	n Set (	or as		
			A	Additive - this consumption contributed summarized total (do nothing).				
			Ι	Ignore - this consumption did not contribute to the summarized total (do nothing).				
			S	Subtractive - this consumption needs to from the summarized total.	be su	btracted		

Synt	Segment: Position: Loop: Level: Usage: Max Use: Purpose: ax Notes: tic Notes: omments: Notes:	030 PTD Detail Optional 20 To specif 1 At le 2 If eit 3 If eit 1 REF Required REF~AM	cify identifying information least one of REF02 or REF03 is required. either C04003 or C04004 is present, then the other is required. Either C04005 or C04006 is present, then the other is required. F04 contains data relating to the value cited in REF02.					
	Ref.	Data	Data Elem	eent Summary				
	Ref. Des.	Data <u>Element</u>	Name		Attr	ibutes		
Must Use	REF01	128	Reference Identifi	cation Qualifier	M	ID 2/3		
			Code qualifying the	e Reference Identification				
			AM	Adjustment Memo (Charge Back)				
				Adjustment Reason				
Must Use	REF02	127	<b>Reference Identifi</b>	cation	Х	AN 1/30		
				ion as defined for a particular Transaction	n Set c	or as		
				ference 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		0	AN 1/80		
			-	ption to clarify the related data elements a	ind the	ir content		
				formation regarding the adjustment. For e rcent of the adjustment.	xampl	e, Ameren		

Synt	Segment: Position: Loop: Level: Usage: Max Use: Purpose: tax Notes: otic Notes: omments: Notes:	110 QTY Detail Optional 1 To specif 1 At le 2 Only 1 QTY This loop the total	704 is used when the	QTY04 is required. TY04 may be present. quantity is non-numeric. ere are unmetered services on the account	. Thi	s will contain
			Data Elem	ent Summary		
	Ref.	Data	Data Elem	cht Summary		
	Des.	Element	Name		Att	ributes
Must Use	QTY01	673	Quantity Qualifier		Μ	ID 2/2
			Code specifying the	e type of quantity		
			QD	Quantity Delivered		
				Whether unmetered services are estima actual, the code will be QD.	ted, ca	alculated or
Must Use	QTY02	380	Quantity		Х	R 1/15
			Numeric value of qu	uantity		
			Represents quantity	of consumption delivered for service per	iod	
Must Use	QTY03	C001	<b>Composite Unit of</b>	Measure	0	
			To identify a compo of use)	osite unit of measure (See Figures Apper	dix fo	or examples
Must Use	C00101	355	Unit or Basis for M	leasurement Code	Μ	ID 2/2
			Code specifying the which a measureme KH TD	e units in which a value is being expressed int has been taken Kilowatt Hour KWH Therms	l, or r	nanner in

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:	<ol> <li>At least one of MEA03 MEA05 MEA06 or MEA08 is required.</li> <li>If MEA05 is present, then MEA04 is required.</li> <li>If MEA06 is present, then MEA04 is required.</li> <li>If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.</li> </ol>
	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

#### Ref. Data Des. 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 738 Must Use **MEA02 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 Х Must Use C001 **Composite Unit of Measure MEA04** To identify a composite unit of measure (See Figures Appendix for examples of use) Must Use C00101 355 M ID 2/2 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken K1 Kilowatt Demand KH Kilowatt Hour TD Therms 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

Synt Seman	Segment:PTD Product Transfer and Resale Detail (Interval Metered Services Detail)Position:010Loop:PTD MandatoryLevel:DetailUsage:MandatoryMax Use:1Purpose:To indicate the start of detail information relating to the transfer/resale of a product and provide identifying dataSyntax Notes:1If either PTD02 or PTD03 is present, then the other is required.2If either PTD04 or PTD05 is present, then the other is required.Semantic 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 Elen	ient Summary		
	Ref.	Data				
	Des.	Element	Name			ributes
Must Use	PTD01	521	Product Transfer		N	ID 2/2
				ne type of product transfer		
			PM	Physical Meter Information	1	
		130	Defenence Identif	A PM loop will be provided for each in		
	PTD04	128	<b>Reference Identifi</b>	-	X	ID 2/3
			Ameren: Required	e Reference Identification		
			ComEd: Not Used			
			OZ	Product Number		
				Commodity		
	PTD05	127	<b>Reference Identifi</b>	ication	Х	AN 1/30
				tion as defined for a particular Transactio ference Identification Qualifier Electric	on Set o	or as
			EL	Eleculo		

	Segment:	DTN	<b>I</b> Date/Time Refe	rence (Meter Change Date)		
	Position:	020				
	Loop:	PTD	Mandatory			
	Level:	Detail				
	Usage:	Optional				
	Max Use:	10				
	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         Des.       Element Name					
Synt	ax Notes:					
	• •					
10 1						
Co		_				
	Notes: Required when a meter is changed					
	to indicate when a meter has been replaced. Separate PTD loops must be created for each period and meter.					
			Data Elemo	ent Summary		
	Ref.	Data				
		<u>Element</u>			Attr	<u>ibutes</u>
Must Use	DTM01	374	Date/Time Qualifie	er	Μ	ID 3/3
			Code specifying typ	e of date or time, or both date and time		
			514	Transferred		
				Exchanged meter read date		
Must Use	DTM02	373	Date	0	x	DT 8/8
111051 USU	171111/2	515			<b>2h</b>	
			Date expressed as C			

	Segment:	DTN	<b>Date/Time Reference</b> (Service Period Start)		
	Position:	020			
	Loop:	PTD	Mandatory		
	Position:       020         Loop:       PTD         Mandatory       Level:         Detail       Usage:         Optional       Max Use:         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         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         Aust Use       DTM01         Ref.       Data         Des.       Element         Element       Service Period Start				
	Position:       020         Loop:       PTD       Mandatory         Level:       Detail       Usage:       Optional         Max Use:       10       Image: Purpose:       To specify pertinent dates and times         Purpose:       To specify pertinent dates and times       Image: Purpose:       Image: Purpose:         Syntax Notes:       1       At least one of DTM02 DTM03 or DTM05 is required.       Image: Purpose:         Syntax Notes:       1       At least one of DTM05 or DTM06 is present, then the other is required.       Image: Purpose:         Semantic Notes:       3       If either DTM05 or DTM06 is present, then the other is required.       Image: Purpose:         Semantic Notes:       Required       This date reflects the beginning of the date range for this meter.       Image: Purpose: DTM~150~20081201         Must Use       DES.       Element       Summary       Attributes         Must Use       DTM01       Attributes       Mate/Time Qualifier       Mate/Time Qualifier         150       Service Period Start       X       DT 8/8				
	Max Use:	10			
Synt	tax Notes:		-		
G	· • •	3 If ei	ther DTM05 or DTM06 is present, then the other is required.		
C		D a surias d			
	notes:	-			
		DTM~15	50~20081201		
	<b>D</b> 4	<b>D</b> (	Data Element Summary		
			N	• • •	•1
Mar of The					
Must Use	DIMOI	374	-	IVI	ID 3/3
			Code specifying type of date or time, or both date and time		
			150 Service Period Start		
Must Use	DTM02	373	Date	Х	DT 8/8
			Date expressed as CCYYMMDD		
			-		

	Segment:	DTN	<b>Date/Time Reference (Service Period End)</b>	
	Position:	020		
	Loop:	PTD	Mandatory	
	Level:	Detail		
	Usage:	Optional		
	Max Use:	10		
	Purpose:		Ty pertinent dates and times	
Synt	tax Notes:		east one of DTM02 DTM03 or DTM05 is required.	
			ΓM04 is present, then DTM03 is required.	
a		3 If eit	ther DTM05 or DTM06 is present, then the other is required.	
10 0 0 0 0	tic Notes:			
C	omments:	D		
	Notes:	Required		
			reflects the ending of the date range for this meter.	
		DTM~15	51~20081231	
		_	Data Element Summary	
	Ref.	Data	N	A AT
	Des.	Element	Name	<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	
			1.	

	Segment:	REF	Reference Identification (Meter Number)					
	Position:	030						
	Loop:	PTD Mandatory						
	Level:	Detail						
	Usage:	Optional						
Max Use: 20								
	Purpose:	To specif	fy identifying information					
Syntax Notes:1At least one of REF02 or REF03 is required.2If either C04003 or C04004 is present, then the other is required.								
-		2 If eit	ther C04003 or C04004 is present, then the other is required.					
		3 If eit	her C04005 or C04006 is present, then the other is required.					
Seman	tic Notes:	1 REF	04 contains data relating to the value cited in REF02.					
Co	omments:							
	Notes:	Required service p REF~MO		ive during the				
		KEF~MC	J~12343					
			Data Element Summary					
	Ref.	Data	•					
	Des.	Element	Name	Attributes				
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				
Must ese	KLI V2	127						
			Reference information as defined for a particular Transaction	i Set of as				
			specified by the Reference Identification Qualifier Meter Number					

Segment:	<b>REF</b> 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.
	<b>3</b> 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.
<b>Comments:</b>	
Notes:	Required

	Ref.	Data			
	Des.	Element	<u>Name</u>		<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identif</b>	-	M ID 2/3
				e Reference Identification	
			KY	Site Specific Procedures, Terms, and C	onditions
				Special Meter Configuration	
Must Use	REF02	127	Reference Identif		X AN 1/30
			specified by the Re	tion as defined for a particular Transaction eference Identification Qualifier	n Set or as
			Special Meter Con	-	
			AL	Auxiliary Load (ComED)	
			BMG	Behind the Meter Generation (Ameren)	1
			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 (Ar	neren)
			NM-GG	Net Metering - Gross Generation Meter	(Ameren)
			NM-GL	Net Metering - Gross Load Meter (Ame	eren)
			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)	

REF~KY~AL

Segment:	<b>REF</b> 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.
	<b>3</b> If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	<b>1</b> REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>	
Notes:	Required

### REF~MT~K1060

#### **Data Element Summary** Ref. Data Des. Ele<u>ment</u> Name Attributes Must Use **REF01** 128 **Reference Identification Qualifier** ID 2/3 Μ 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:	<b>REF</b> 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.
	<b>3</b> If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	<b>1</b> REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>	
Notes:	Required

REF~.	
КСГ~.	лп∼А

Must Use	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	Name	ntification Qualifier	<u>Att</u> M	ributes ID 2/3
			Code qualifyin	g the Reference Identification		
			JH	Tag		
				Meter Role		
Must Use	REF02	127	Reference Ide	ntification	Х	AN 1/30
				rmation as defined for a particular Transactio e Reference Identification Qualifier	n Set (	or as
			А	Additive - this consumption contribute summarized total (do nothing).	d to th	e
			Ι	Ignore - this consumption did not contract summarized total (do nothing).	ribute	to the
			S	Subtractive - this consumption needs to from the summarized total.	o be si	lbtracted

Synt Seman	Segment:REF Reference Identification (Meter Constant)Position:030Loop:PTD MandatoryLevel:DetailUsage:OptionalMax Use:20Purpose:To specify identifying informationSyntax 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.1 REF04 contains data relating to the value cited in REF02.						
	Notes:	The Meter point and REF~4P-	ired when the value is other than 1. Meter Constant will be formatted as 6 digits to the left of the decimal, a decimal and four digits to the right of the decimal. All 11 characters must be sent. -4P~000001.0000 Meter Constant of 1 -4P~000080.0000 Meter Constant of 80				
			Data Elem	ent Summary			
	Ref. <u>Des.</u>	Data <u>Element</u>	Name		Attributes		
Must Use	REF01	128	Reference Identifie	cation Qualifier	M ID 2/3		
			Code qualifying the	e Reference Identification			
			4P	Affiliation Number			
				Meter Constant (Meter Multiplier) (Ending Reading - Beginning Reading) Constant = Consumption	* Meter		
Must Use	REF02	127	<b>Reference Identifie</b>	*	X AN 1/30		
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Meter Constant		n Set or as		

	Segment: Position: Loop: Level:	<b>REF</b> Reference Identification (Number of Dials) 030 PTD Mandatory Detail					
	Usage:	Optional					
	Max Use: Purpose:	20 To specif	fy identifying information				
	ax Notes:		fy identifying information east one of REF02 or REF03 is required.				
Seman	tic Notes:	<ol> <li>If eit</li> <li>If eit</li> </ol>	ther C04003 or C04004 is present, then the other is required. ther C04005 or C04006 is present, then the other is required. 04 contains data relating to the value cited in REF02.				
	Notes:	<ul> <li>Required</li> <li>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.</li> <li>REF~IX~6.0 Meter has 6 digits to the left of the decimal and none to the right.</li> <li>REF~IX~5.1 Meter has 5 digits to the left of the decimal and one to the right.</li> </ul>					
	D C	Data Element Summary					
	Ref.	Data Flomont	Nomo	A +++	ributos		
Must Use	Des. REF01	Element 128	<u>Name</u> Reference Identification Qualifier		<u>ributes</u> ID 2/3		
1111150 050		120	Code qualifying the Reference Identification				
			IX Item Number				
			Number of Dials				
Must Use	REF02	127	Reference Identification	Х	AN 1/3		
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Number of Dials				

	Segment:	<b>REF</b> Reference Identification (Transformer Loss Multiplier)					
	Position:	030					
	Loop:	PTD	Mandatory				
	Level:	Detail					
	Usage:	Optional					
	Max Use:	20					
	<b>Purpose:</b>		y identifying information				
Synt	ax Notes:		ast one of REF02 or REF03 is required.				
			her C04003 or C04004 is present, then the other is required.				
~			her C04005 or C04006 is present, then the other is required.				
	tic Notes:	1 REF	04 contains data relating to the value cited in REF02.				
Co	omments:						
	Notes:	-	if the value is other than 1				
		An adjustment applied to meter reads to compensate for the situation when the meter voltage is different than the delivery voltage REF~CO~1.12					
			Data Element Summary				
	Ref.	Data	v				
	Des.	<b>Element</b>	Name	<u>Attributes</u>			
Must Use	REF01	128	<b>Reference Identification Qualifier</b>	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 S	Set or as			
			specified by the Reference Identification Qualifier				
			Transformer Loss Multiplier				
			Tunstonner 2005 Mutupher				

Semar	Segment: Position: Loop: Level: Usage: Max Use: Purpose: tax Notes: onments: Notes:	110 QTY Detail Optional 1 To specif 1 At le 2 Only 1 QTY There wi kVARH) values we Required	704 is used when the o Il be one QTY loop fo . If a meter measures ould be contained in s	QTY04 is required. TY04 may be present. quantity is non-numeric. or each type of consumption for the meter total usage, as well as on-peak and off-p		
			Data Eleme	ent Summary		
Must Use	Ref. <u>Des.</u> QTY01	Data <u>Element</u> 673	<u>Name</u> Quantity Qualifier	·	<u>Attı</u> M	<u>ibutes</u> ID 2/2
			Code specifying the			
			KA	Estimated		
				Used when Quantity in QTY02 is Estim	ated	
			QD	Quantity Delivered	1 5	
	0.000		0	Used when Quantity in QTY02 is Actua		-
Must Use	QTY02	380	Quantity		X	R 1/15
			Numeric value of qu	-		
	0	<b>C A A</b>		of consumption delivered for service peri		
Must Use	QTY03	C001	Composite Unit of		0	_
			To identify a compo of use)	site unit of measure (See Figures Append	dix fo	or examples
Must Use	C00101	355	Unit or Basis for M	leasurement Code	М	ID 2/2
	000101			units in which a value is being expressed		
				KW		
			K3	Kilovolt Amperes Reactive Hour		
				KVARH		
			KH	Kilowatt Hour		

		МГ	٨			
	Segment:	MEA Measurements (Readings)				
	Position:	160				
	Loop:	QTY	Optional			
	Level:	Detail Optional				
	Usage: Max Use:	40				
	Purpose:		fy physical measure	ements or counts, including dimensions, to	leranc	es variances
	i ui pose.			ppendix for example of use of C001)	<i>nerane</i>	es, variances,
Svn	tax Notes:			MEA05 MEA06 or MEA08 is required.		
~ J				en MEA04 is required.		
				en MEA04 is required.		
		<b>4</b> If M	EA07 is present, th	en at least one of MEA03 MEA05 or ME	A06 is	required.
				MEA03 may be present.		
	ntic Notes:			t of measure for MEA03, MEA05, and M		
C	comments:			al tolerances, any measurement requiring		
				e a positive $(+)$ value cannot be assumed,	use MI	$\pm A05$ as the
	Notes:	nega Required		AEA06 as the positive (+) value.		
	notes:	-		51		
			PRQ~8955~KH~~~ PRQ~17910~K1~~			
		MEAss	KQ~17910~K1~~	-51		
			Data Ele	ment Summary		
	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Att	ributes_
Must Use	MEA02	738	Measurement Qu	ualifier	0	ID 1/3
			Code identifying a specific product or process characteristic to which a			
			measurement app	lies		
			PRQ	Product Reportable Quantity		
Must Use	MEA03	739	Measurement Va	alue	Х	R 1/20
			The value of the r	neasurement		
Must Use	MEA04	C001	Composite Unit	of Measure	Х	
			—	posite unit of measure (See Figures Appe	endix fo	or examples
			of use)			1
Must Use	C00101	355	Unit or Basis for	Measurement Code	Μ	ID 2/2
			Code specifying t	he units in which a value is being express	ed, or 1	nanner in
			which a measuren	nent has been taken		
			K1	Kilowatt Demand		
				KW		
			K3	Kilovolt Amperes Reactive Hour		
				KVARH		
			KH	Kilowatt Hour		
				KWH		
Must Use	MEA07	935	Measurement Sig		0	ID 2/2
		200		chmark, qualify or further define a measur		
				Off Peak	ement	value
			41			
			42	On Peak		
			51	Total		

Segment:       DTM Date/Time Reference (Report Period)         Position:       210         Loop:       QTY Optional         Level:       Detail         Usage:       Optional         Max Use:       10         Purpose:       To specify pertinent dates and times         Syntax Notes:       1         At least one of DTM02 DTM03 or DTM05 is required.         2       If DTM04 is present, then DTM03 is required.         3       If either DTM05 or DTM06 is present, then the other is required.         Semantic Notes:       Kemments:							
	Notes:			iod for which the quantity is provided. Tir explicitly labeled with the date and time.	ne wil	ll include	
		Required	82~20081215~1500				
		DTM~3c	\$2~20081215~1500				
	Dof	Data	Data Elen	nent Summary			
	Ref. <u>Des.</u>	Data <u>Element</u>	Name		Attı	<u>ributes</u>	
Must Use	DTM01	374	Date/Time Qualif	ïer	Μ	ID 3/3	
			Code specifying ty	pe 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				

S	Segment: SE Transaction Set Trailer						
	Position:	030					
	Loop:						
	Level:	Summary					
	Usage:	Mandato	ry				
Ν	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)				
Synta	ax Notes:						
Semant	ic Notes:						
Со	mments:		s the last segment of each transaction set.				
	Notes:	Required					
		SE~21~0	0000001				
			Data Element Summary				
	Ref.	Data					
	Des.	<b>Element</b>	<u>Name</u>	<u>Attributes</u>			
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	0			
Must Use	<b>SE02</b>	329	Transaction Set Control Number	M AN 4/9			
			Identifying control number that must be unique within the trans	action set			
			functional group assigned by the originator for a transaction set				

ComEd	Ameren
ST*867*0001	ST*867*0001
BPT*00*2013-04-19-19.35.43.150000*20130419*DD	BPT*00*1625429453201304190001*20130419*I
DTM*649*20130424*1000	DTM*649*20130425*144500
N1*8S*COMMONWEALTH EDISON CO*1*006929509	N1*8S*AMEREN ILLINOIS*1*006936017
N1*SJ*Supplier*9*007909111IL00	N1*SJ*Supplier*9*0079091111L00
N1*8R*CUSTOMER NAME	N1*8R*CUSTOMER NAME
REF*12*1234567890*GROUPB	REF*12*1234567890*GROUPC
REF*BLT*LDC	REF*LU*41128204
REF*PC*DUAL	REF*SPL*RATE ZONE III
REF*9V*Y	REF*BLT*LDC
PTD*SU	REF*PC*DUAL
DTM*150*20130321	REF*9V*Y
DTM*151*20130419	PTD*SU
REF*NH*R73	DTM*150*20130319
REF*LO*28	DTM*151*20130418
REF*PTC**SG05	REF*NH*DS3*DS - General Service (DS-3) Le
QTY*QD*1291*KH	REF*LO*DS3LL-
MEA*AA*PRQ*1291*KH***51	QTY*QD*24000*KH
MEA*AA*PRQ*3.56*K1***42	MEA*AA*PRQ*24000*KH***51
MEA*AA*PRQ*3.56*K1***41	PTD*PL
PTD*PL	DTM*150*20130319
DTM*150*20130321	DTM*151*20130418
DTM*151*20130419	REF*MG*91346000
REF*MG*141660000	REF*MT*K1MON
REF*KY*GS	REF*JH*A
REF*MT*K1MON	REF*4P*000320.0000
REF*JH*A	REF*IX*5.0
REF*4P*000001.0000	QTY*QD*24000*KH
REF*IX*5.0	MEA*AA*PRQ*24000*KH*8702*8777*51
QTY*QD*1291*KH	MEA*AA*PRQ*10240*KH*3493*3525*42
	MEA*AA*PRQ*53.76*K1***41
MEA*AA*PRQ*3.56*K1**3.56*51	MEA*AA*PRQ*56.64*K1***42
SE*33*0001	SE*33*0001

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

Example #2 – Monthly Usage for Unmetered s	Delvice
ComEd	Ameren
ST*867*0001	ST*867*0001
BPT*00*2013-10-11-21.51.28.111111*20131011*DD	BPT*00*9863008816201310110002*20131011*DD
DTM*649*20131016*1000	N1*8S*AMEREN ILLINOIS*1*006936017
N1*8S*COMMONWEALTH EDISON CO*1*006929509	N1*SJ*SUPPLIER*1*11111111
N1*SJ*SUPPLIER*9*123456789L00	N1*8R*CUSTOMER NAME
N1*8R*CUSTOMER NAME	REF*12*9863009999*GROUPB
REF*12*2863059999*GROUPD	REF*LU*95749999
REF*BLT*LDC	REF*SPL*RATE ZONE I
REF*PC*DUAL	REF*BLT*DUAL
REF*9V*Y	REF*PC*DUAL
PTD*SU	REF*9V*N
DTM*150*20130911	PTD*SU
DTM*151*20131011	DTM*150*20130911
REF*NH*R81	DTM*151*20131010
REF*LO*35	REF*NH*DS5*DS - Non-Residential Lighting
REF*PTC**SG02	REF*LO*LITE
QTY*QD*450*KH	QTY*QD*95*KH
MEA*AA*PRQ*450*KH***51	MEA*AA*PRQ*95*KH***51
PTD*BC	PTD*BC
DTM*150*20130911	DTM*150*20130911
DTM*151*20131011	DTM*151*20131010
QTY*QD*450*KH	REF*JH*A
SE*23*0001	QTY*QD*95*KH
	SE*24*0001

Example #2 – Monthly Usage for Unmetered Service

## 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
 OTY*OD*354*KH
   MEA**PRO*354*KH***51
   MEA**PRQ*364*K1***51
   DTM*582*20100903*0200
 QTY*QD*318*KH
   MEA**PRQ*318*KH***51
   MEA**PRO*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**PRO*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 OTY*OD*726*KH MEA**PRO*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**PRO*1292*K1***51 DTM*582*20100903*0300

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

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

ST*867*80001	
BPT*00*8672010-09-910.35.000000*20100909*C1	
N1*8S*COMMONWEALTH EDISON*1*006929509	
N1*SJ*SUPPLIER*1*11111111	
N1*8R*CUSTOMER NAME	
REF*12*11111111111*NONPOR	
REF*BLT*DUAL	
REF*PC*DUAL	
REF*9V*N	
PTD*SU	
DTM*150*20100303	
DTM*150 20100505	
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	(Continued from left)
REF*KY*IO	
REF*MT*K1030	
REF*JH*A	REF*KY*IO
REF*4P*000001.0000	REF*MT*K1030
REF*IX*5.0	REF*JH*A
QTY*QD*8955*KH	REF*4P*000001.0000
MEA**PRQ*8955*KH***51	REF*IX*5.0
MEA**PRQ*17910*K1***51	QTY*QD*3915*KH
DTM*582*20100304*0030	MEA**PRQ*3915*KH***51
QTY*QD*9144*KH	MEA**PRQ*7830*K1***51
MEA**PRQ*9144*KH***51	DTM*582*20100304*0030
MEA**PRQ*18288*K1***51	QTY*QD*3870*KH
DTM*582*20100304*0100	MEA**PRQ*3870*KH***51
skipped through the end of the period	MEA**PRQ*7740*K1***51
	DTM*582*20100304*0100
QTY*QD*8523*KH	
MEA**PRQ*8523*KH***51	skipped through the end of the period
MEA**PRQ*17046*K1***51	· · · · ·
DTM*582*20100401*2130	QTY*QD*13.284*KH
QTY*QD*8478*KH	MEA**PRQ*13.284*KH***51
MEA**PRQ*8478*KH***51	MEA**PRQ*26.568*K1***51
MEA**PRQ*16956*K1***51	DTM*582*20100401*2130
DTM*582*20100401*2200	QTY*QD*14.256*KH
PTD*PM (SECOND METER)	MEA**PRQ*14.256*KH***51
DTM*150*20100303	MEA**PRQ*28.512*K1***51
DTM*151*20100401	DTM*582*20100401*2200
REF*MG*145002222	SE*33340*80001

## Example #4 – Interval Usage ComEd

## 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*PRO*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
                                              ← Community Solar Participant Ind. = Yes
 REF*AN*Y
                                              ← Total Consumption
 QTY*QD*2587*KH
   MEA*AA*PRO*2587*KH***51
 OTY*77*11.408*KH
                                              ← Total Off Site (Community Solar) Generation
   MEA*AF*PRO*11.408*KH***51
 QTY*QH*154*KH
                                              ← Starting Bank (Can be on- or off-site)
   MEA*AF*PRQ*154*KH***51
PTD*PL***OZ*EL
 DTM*150*20180501
 DTM*151*20180601
 REF*MG*99998888
 REF*MT*KHMON
 REF*JH*A
 REF*IX*6.0
 OTY*OD*2587*KH
   MEA*AA*PRO*2587*KH*56407*58994*51
PTD*PM***OZ*EL
 DTM*150*20180502
 DTM*151*20180601
 REF*MG*COMSLR
                                              ← Meter # is "COMSLR" for Community Solar
 REF*MT*KH060
 REF*JH*S
 OTY*OD*.0108*KH
   MEA**PRO*.0108*KH***51
     DTM*582*20180502*0100
 OTY*OD*.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
```