# llinois

Implementation Guide For Electronic Data Interchange

> Transaction Set ANSI ASC X12 Version 004010

# 867 Historical Usage Version 2.9

### **Summary of Changes** January 6, 2009 Initial Release. October 24, 2009 Change Control #013 – Fix IG to have one PTD\*BQ loop per service period. Version 1.1 January 6, 2011 • Change Control #016 – Updated POR Eligibility Group Codes. Version 1.2 Change Control #018 – Removed old examples and added production examples from Ameren and test examples from ComEd. Fixed language in Notes section regarding PTD loops. Change Control #022 – Added REF\*SPL for Ameren's Rate Zone. Corrected X12 values under "Attributes" column and headings of each page. October 6, 2011 Change Control #034 - Clarified REF03 of REF\*NH to explain Ameren's • Version 1.3 inclusion of code "SH" for Space Heating. • Change Control #036 – Added section to Implementation Notes for Space Heating. June 7, 2013 Change Control #040 – Added requirements for Ameren Gas • Version 2.0 October 14, 2013 • Change Control #041 – Added examples for Ameren Gas and corrected the Version 2.1 QTY01 code to "MX" for MDCQ. January 23, 2015 Change Control #042 – Added AMI Data Availability (REF\*KX). ٠ Version 2.2 May 29, 2015 Change Control #042 – Added Ameren Examples. ٠ Version 2.3 October 15, 2016 • Change Control #048 – Modified requirements to allow Gas Suppliers to Version 2.4 request Historical Interval Usage. July 10, 2018 Change Control #050 – Added Community Solar Participant Indicator Version 2.5 (REF\*AN), Special Meter Configuration (REF\*KY). November 16, 2018 Change Control #051 – Added Total Off-site Generation QTY/MEA, Total • Version 2.6 On-site Generation QTY/MEA, and Starting Bank QTY/MEA. Updated PTD\*BQ Loop comment on QTY regarding Community Solar as well as onsite generation having their own PTD loop. November 30, 2018 Correction: Removed the Updated PTD\*BQ Loop comment on QTY regarding Version 2.6 Community Solar as well as on-site generation having their own PTD loop and replaced it with "The Interval Details will only contain the Consumption kWh." Also corrected the examples in the gray box on new QTY segments to include DTMs. September 30, 2019 Change Control #052 - Added Low Income Customer Indicator (REF\*5E). • Version 2.7 January 18, 2023 **Change Control #053** – Updated the Notes section of the QTY (Transmission Version 2.8 Contribution – NSPL) segment to allow for the sending of up to four current NSPL values per service point and up to four pending NSPL values per service point (for a grand total of up to eight NSPL values per service point). October 5, 2023 Change Control #055 – Updated PLC (QTY\*KC) and NSPL (QTY\*KZ) to Version 2.9 indicate that negative values may be sent.

	Implementation Notes
Use of this document	• Historical usage will be provided upon request from the RES/GS. Historical usage can be sent in either a Historical Interval Usage (HI) or Historical Monthly Usage (HU) transaction depending on how it was requested on the 814 Enrollment Request (HU only) or 814 Historical Usage Request (HI or HU).
PTD Loops Definition	• For Historical Usage (HU) the following PTD loops will be sent:
	<ul> <li>The PTD~SU loop is used to show the total usage for the account/service point. There will only be one PTD loop per transaction and is always required.</li> <li>The PTD~FG loop will be used to show scheduling determinants (capacity obligation, etc.)</li> <li>For Historical Interval Usage (HI) the following PTD loops will be sent:</li> </ul>
	• The PTD~SU loop is used to show the total usage for the account/service point. There will only be one PTD loop per transaction and is always required.
	<ul> <li>The PTD~BQ loop is used to show interval usage by account/service point. There will be one PTD~BQ loop for each service period for each service point with multiple QTY loops for the different units of measure or measurement significance codes.</li> <li>The PTD~FG loop will be used to show scheduling determinants (capacity obligation, etc.)</li> </ul>
Definition of Mass Market Customers	<ul> <li>Ameren Mass Market         <ul> <li>Electric - Includes any account containing one or more of only the following types of service points: DS-1 (residential), DS-2 (small commercial &lt; 150 kW) or DS-5 (lighting).</li> <li>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).</li> </ul> </li> </ul>
	<ul> <li>ComEd Mass Market – Includes all residential and commercial customers under 100 kW.</li> </ul>
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.
Space Heating	• For Ameren, a service point that is eligible for the space heat rate is identified with an "SH" in the text description of the rate class at the beginning of the REF03 (Utility Rate Class) segment.

	•	For ComEd, space heat customers are identified in the REF03 (Utility Rate Class) segment with an NH code and a text description of the applicable space heat rate class.
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:**

М	<b>Pos.</b> <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	М	1		
	050	DTM	Date/Time Reference	0	10		
			LOOP ID - N1			5	
	080	N1	Name	0	1		
	120	REF	Reference Identification	0	12		

### **Detail:**

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

S	Segment:	<b>ST</b> т	ransaction Set Header				
]	Position:	010					
	Loop:						
	Level:	Heading					
	Usage:	Mandato	ry				
Ν	Max Use:	1					
]	Purpose:	To indica	te the start of a transaction set and to assign a control number				
Synta	ax Notes:						
•	<b>1</b> 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	tts the involce Transaction Set).				
Cu	Notes:	Required					
	nones.	-					
		51~80/~	00000001				
			Data Element Summary				
	Ref.	Data	-				
	Des.	<b>Element</b>	Name	Att	ributes		
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	Μ	AN 4/9		
			Identifying control number that must be unique within the tra- functional group assigned by the originator for a transaction				

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 eit 1 BPT 2 BPT 3 BPT	ry ate the beginning of the identifying data ther BPT05 or BPT06 02 identifies the tran 03 identifies the tran 08 identifies the tran 09 is used when it is	sfer/resale date.		
	10005.	-	~2013101212345678	9~20131201~DD		
			Data Elem	ent Summary		
	Ref.	Data	Data Elem	cht Summary		
	Des.	<u>Element</u>	<u>Name</u>			<u>butes</u>
Must Use	BPT01	353	Transaction Set Pu	-	Μ	ID 2/2
				rpose of transaction set		
			52	Response to Historical Inquiry		
	DDT04	105		Response to a request for historical me		-
Must Use	BPT02	127	Reference Identifie		0	AN 1/30
				ion as defined for a particular Transaction ference Identification Qualifier	n Set of	r as
				n identification number assigned by the o	originat	or of this
			transaction. This nu	umber should be unique over time.		
					1	
				nce Numbers will only contain uppercase es (-) and periods (.). Note that all other		
			underscores, etc.) m	· · · · · · · · · · · · · · · · · · ·	enaraet	ers (spaces,
Must Use	BPT03	373	Date		М	DT 8/8
			Date expressed as C	CCYYMMDD		
				on Date. This is the date that the transaction	ion was	created by
			the sender's applica		0	ID 2/2
Must Use	BPT04	755	Report Type Code		-	ID 2/2
			-	title or contents of a document, report or	suppo	rting item
			C1	Cost Data Summary Indicates transaction is a Historical Inte		
				transaction with only interval meters of		0
			DD	Distributor Inventory Report	e ac	
				Indicates transaction is a Historical nor	n-interv	al usage
				transaction.		
			DR	Datalog Report		
				Mixed Values - Sent on historical inter		
				the account has both interval and non-i	nterval	meters.

Synt Seman	Segment: Position: Loop: Level: Usage: Max Use: Purpose: ax Notes: tic Notes: purpose:	050 Heading Optional 10 To specif <b>1</b> At le <b>2</b> If D'	fy pertinent dates and east one of DTM02 D TM04 is present, ther	times TM03 or DTM05 is required. n DTM03 is required. 06 is present, then the other is required.		
	Notes:	-		rrently eligible to switch ailable to switch, this will be used to indi	icate w	hen the
			will be eligible to sw 07~20131225	vitch.		
			Data Elem	ent Summary		
	Ref.	Data				<b>.</b> .
Must Use	<u>Des.</u> DTM01	Element 374	<u>Name</u> Date/Time Qualifi	n#•	-	<u>ibutes</u> ID 3/3
Wiust Use	DIMUI	574	-	be of date or time, or both date and time	IVI	ID 5/5
			307	Eligibility		
			507	Date Customer is eligible to switch		
Must Use	DTM02	373	Date	Due Customer is engible to switch	X	DT 8/8
		0,0	Date expressed as C	CYYMMDD		22010
			Date			

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 eit 1 This orga prov 2 N10 Required	east one of N102 or ther N103 or N104 is segment, used alon nizational identifica ide a key to the tabl 5 and N106 further	is present, then the other is required. e, provides the most efficient method of pution. To obtain this efficiency the "ID Code e maintained by the transaction processing define the type of entity in N101.	le" (N	(104) must
		N1~8S~I	UTILITY NAME~1	~123456789		
			Data Eler	nent Summary		
	Ref.	Data		·		
Must Use	<u>Des.</u> N101	<u>Element</u> 98	<u>Name</u> Entity Identifier	Code	Att M	<u>ributes</u> ID 2/3
Must Osc		20	•	n organizational entity, a physical location Consumer Service Provider (CSP) Utility		
Must Use	N102	93	Name		X	AN 1/60
			Free-form name			
			rice-ionin name			
			Utility Name			
Must Use	N103	66		de Qualifier	X	ID 1/2
Must Use	N103	66	Utility Name Identification Co	de Qualifier the system/method of code structure used f D-U-N-S Number, Dun & Bradstreet D-U-N-S+4, D-U-N-S Number with Fo Suffix	for Id	entification
Must Use Must Use	N103 N104	66 67	Utility Name Identification Code Code designating to Code (67) 1	the system/method of code structure used t D-U-N-S Number, Dun & Bradstreet D-U-N-S+4, D-U-N-S Number with Fo Suffix	for Id	entification
			Utility Name Identification Cod Code designating to Code (67) 1 9 Identification Cod	the system/method of code structure used t D-U-N-S Number, Dun & Bradstreet D-U-N-S+4, D-U-N-S Number with Fo Suffix	for Id	entification naracter

Synt	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 eit 1 This orga prov 2 N10 Required	Dptional Ify a party by type of east one of N102 or N ther N103 or N104 is segment, used alone nizational identificat ide a key to the table 5 and N106 further d	s present, then the other is required. e, provides the most efficient method of prior. To obtain this efficiency the "ID Code maintained by the transaction processing lefine the type of entity in N101.	e" (N	104) must
			Data Elem	ent Summary		
	Ref.	Data				
Must Use	<u>Des.</u> N101	<u>Element</u> 98	<u>Name</u> Entity Identifier C	`ode	<u>Atti</u> M	<u>ributes</u> ID 2/3
Will be ese		20	•	n organizational entity, a physical location Service Provider		
				Retail Electric Supplier (RES) or Gas S	uppli	
Must Use	N102	93	Name		Х	AN 1/60
			Free-form name			
			RES/GS Name			
Must Use	N103	66	Identification Cod	le Qualifier	Х	ID 1/2
			Code designating th Code (67) 1 9	ne system/method of code structure used f D-U-N-S Number, Dun & Bradstreet D-U-N-S+4, D-U-N-S Number with Fo Suffix		
Must Use	N104	67	Code (67) 1	D-U-N-S Number, Dun & Bradstreet D-U-N-S+4, D-U-N-S Number with Fo Suffix		
Must Use	N104	67	Code (67) 1 9	D-U-N-S Number, Dun & Bradstreet D-U-N-S+4, D-U-N-S Number with Fo Suffix le	ur Ch	aracter

I	Segment: Position: Loop: Level: Usage: Max Use: Purpose: ax Notes:	080 N1 C Heading Optional 1 To identi <b>1</b> At le	ify a party by type of east one of N102 or N	organization, name, and code V103 is required. present, then the other is required.		
	tic Notes: mments:	1 This	segment, used alone	, provides the most efficient method of pr	roviding	
	Notes:	<ul> <li>organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.</li> <li>N105 and N106 further define the type of entity in N101.</li> <li>Required</li> <li>N1~8R~CUSTOMER NAME</li> </ul>				
			Data Elem	ent Summary		
Must Use	Ref. <u>Des.</u> N101	Data <u>Element</u> 98	<u>Name</u> Entity Identifier C	Code	<u>Attributes</u> M ID 2/3	
			Code identifying ar individual 8R	n organizational entity, a physical location Consumer Service Provider (CSP) Cust Customer Name		
Must Use	N102	93	<b>Name</b> Free-form name		X AN 1/60	
			Customer Name			

REF	<b>Reference Identification (RES/GS Account Number)</b>

	Segment:	REF	Reference Ide	entification (RES/GS Account Number	r)				
	Position:	120			-)				
	Loop:								
	Level:	Heading	•						
	Usage:	Optional							
	Max Use:	12							
	<b>Purpose:</b>	To specif	fy identifying inf	ormation					
Synt	ax Notes:			2 or REF03 is required.					
·				204004 is present, then the other is requir	red.				
		3 If eit	ther C04005 or C	204006 is present, then the other is requir	red.				
Seman	tic Notes:	1 REF	04 contains data	relating to the value cited in REF02.					
C	omments:								
		already e number.		ES/GS account number on all transactior RES/GS, the Utility will not return the R					
			Data E	Clement Summary					
	Ref.	Data							
	Des.	<u>Element</u>			<u>Attributes</u>				
Must Use	REF01	128		ntification Qualifier	M ID 2/3				
			Code qualifying	g the Reference Identification					
			11	Account Number					
				Retail Electric Supplier (RES) or G	Gas Supplier (GS)				
				Account Number					
Must Use	REF02	127	Reference Iden	ntification	X AN 1/30				
			Reference infor	mation as defined for a particular Trans	action Set or as				
				e Reference Identification Qualifier					
			RES/GS Accou	int Number					

] Synt Seman	Segment: Position: Loop: Level: Usage: Max Use: Purpose: ax Notes: ax Notes: tic Notes: omments: Notes:	120 N1 C Heading Optional 12 To specif <b>1</b> At le <b>2</b> If eit <b>3</b> If eit <b>1</b> REF Required Both utilizeros mu	Optional by identifying informates ast one of REF02 or her C04003 or C0400 her C04005 or C0400 04 contains data related	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. 0-digit account numbers. All 10 digits, in	ncluding leading
			Data Elem	ent Summary	
Must Use	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	<u>Name</u> Reference Identific		<u>Attributes</u> M ID 2/3
			Code qualifying the 12	Reference Identification Billing Account Utility Account Number	
Must Use	REF02	127	Reference Identific		X AN 1/30
	0-		Reference informati	ion as defined for a particular Transaction ference Identification Qualifier	
Must Use	REF03	352	Description		X AN 1/80
	***		-	tion to clarify the related data elements a	
			Electric: This code i	indicates the current class of customer in s of the time the transaction is sent.	
			GROUPA	POR Eligibility Group A	
			CDOUDD	Ameren: Residential POR Eligible Acco	ounts
			GROUPB	POR Eligibility Group B Ameren: Commercial Mass Market PO Accounts ComEd: Commercial Mass Market PO Accounts (watt-hour/small)	
			GROUPC	POR Eligibility Group C Ameren: Non-Mass Market POR Eligib ComEd: Non-Mass Market POR Eligib	
			GROUPD	(medium) POR Eligibility Group D Ameren: Not Used	
			NONPOR	ComEd: Lighting Account Not Eligible for POR	

# **REF** Reference Identification (Service Point Identifier)

	Segment:	KEI	Reference Identi	fication (Service Point Identifier)		
	<b>Position:</b>	120				
	Loop:	N1 (	Optional			
	Level:	Heading				
	Usage:	Optional	l			
]	Max Use:	12				
	Purpose:		fy identifying inform			
Synt	ax Notes:		east one of REF02 or			
				004 is present, then the other is required.		
~				006 is present, then the other is required.		
	tic Notes:	1 REF	<sup>4</sup> 04 contains data rela	ating to the value cited in REF02.		
Ca	omments:				•	
	Notes:			red - Historical Usage sent by Service Po		
				Required - Historical Usage sent by Servi	ce Poir	nt
		ComEd:	Not Used			
		Amoron	aurrantly uses on 9 d	ligit Service Doint Identifier All & digits	inclu	ding loading
			ust be provided.	ligit Service Point Identifier. All 8 digits	, meruo	ing leading
			J~00034180			
		KLI~LC	J~000J4100			
			Data Elem	nent Summary		
	Ref.	Data				
	Des.	<u>Element</u>				<u>ibutes</u>
Must Use	REF01	128	Reference Identifi	cation Qualifier	Μ	ID 2/3
			Code qualifying the	e Reference Identification		
			LU	Location Number		
				Service Point Identifier		
Must Use	REF02	127	Reference Identifi	cation	X	AN 1/30

 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
 Service Point Identifier

] Synt Seman	Segment: Position: Loop: Level: Usage: Max Use: Purpose: ax Notes: tic Notes: omments: Notes:	120 N1 C Heading Optional 12 To specif <b>1</b> At le <b>2</b> If eit <b>3</b> If eit <b>1</b> REF Ameren: ComEd: REF~SP.	<ul> <li>Optional</li> <li>Heading</li> <li>Optional</li> <li>2</li> <li>To specify identifying information <ul> <li>At least one of REF02 or REF03 is required.</li> <li>If either C04003 or C04004 is present, then the other is required.</li> <li>If either C04005 or C04006 is present, then the other is required.</li> </ul> </li> </ul>				
			L~RATE ZONE II L~RATE ZONE III				
	Ref.	Data	Data Element Summary				
	Des.	<u>Element</u>	Name		<u>ributes</u>		
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	Μ	ID 2/3		
			SPL Standard Point Location Code (SPLC)				
			Rate Zone				
Must Use	REF02	127	Reference Identification	Х	AN 1/30		
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier	Set	or as		
			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	<b>and Resale Detail (Summary)</b> 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		
	Ref.	Data		en cumury		
Must Use	<u>Des.</u> PTD01	<u>Element</u> 521	<u>Name</u> Product Transfer '	Type Code		<u>ributes</u> ID 2/2
widst Osc	1 1 1 0 1	521		e type of product transfer	171	10 2/2
			SU	Summary		
				Consumption Summarized/Totalized		
				For Ameren, it will be by service point. For ComEd, it will be by account/rate c		
	PTD04	128	<b>Reference Identific</b>		X	ID 2/3
			Code qualifying the	Reference Identification		
			Ameren: Required			
			ComEd: Not Used OZ	Product Number		
			02	Commodity		
	PTD05	127	<b>Reference Identifie</b>	-	Х	AN 1/30
				ion as defined for a particular Transaction	n Set o	or as
			Ameren: Required	ference Identification Qualifier		
			ComEd: Not Used			
			EL	Electric		
			GAS	Gas		

Synt	Segment:REF Reference Identification (Utility Rate Class)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.Data Element Summary					
		_	Data Element Summary			
	Ref. <u>Des.</u>	Data Element	Name	Attribute	PS	
Must Use	REF01	<u>128</u>	Reference Identification Qualifier	M ID 2		
			Code qualifying the Reference Identification			
			NHRate Card Number			
			Utility Rate Class			
Must Use	REF02	127	Reference Identification		1/30	
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier	1 Set or as		
			Utility Rate Class			
	REF03	352	Description		1/80	
			A free-form description to clarify the related data elements a	nd their cor	ntent	
			Text Description of Rate Class			
			For Ameren, "SH" indicates that the given service point is ei is currently on an Ameren Basic Generation Service (BGS) of Service (SGS) space heating rate. For ComEd, space heat ra identified by a text description of the applicable space heat ra	or System G te customer	Gas	

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	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. 704 contains data relating to the value cited in REF02.		
	Notes:	Required REF~LO			
	Ref.	Data	Data Element Summary		
	Des.	Element	Name	Attı	ributes
Must Use	REF01	128	<b>Reference Identification Qualifier</b>	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:	<b>REF</b> Reference Identification (Supply Group)							
	Position:	030							
	Loop:	PTD Mandatory							
	Level:	Detail							
	Usage:	Optional							
	Max Use:	20							
	Purpose:	To specify identifying information							
Synt	tax 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.							
Seman	tic Notes:	<b>1</b> REF04 contains data relating to the value cited in REF02.							
C	omments:								
	Notes:	Note: Supply group will be shown in REF03 due to the length of the supply group name	s.						
		ComEd: Required							
		Ameren: Not Used							
		Customer supply groups are designations for retail customers located in the Company's							
		service territory so that retail customers can be categorized for the purposes of computin	g						
		charges for the procurement of electric power and energy and applying such charges to							
		retail customers. Please see the ComEd tariff for additional details.							
		REF~PTC~~Self-Generating							
		Data Element Summary							
	Ref.	Data							
	Des.	Element Name Attributes							
Must Use	REF01	128Reference Identification QualifierMID 2/3							
		Code qualifying the Reference Identification							
		PTC Patent Type							
		Seconda Consum							

			PTC	Patent Type	
			Supply Group		
Must Use	REF03	352	Description	X	AN 1/80
			A free-form descript	ion to clarify the related data elements and the	eir content
			Supply Group		

# **REF** Reference Identification (AMI Data Availability)

	Segment:	KEF	Reference Identif	ication (AMI Data Availability)		
	Position:	030				
	Loop:	PTD	Mandatory			
	Level:	Detail	•			
	Usage:	Optional	l			
	Max Use:	20				
	Purpose:	To specif	fy identifying inform	ation		
Synt	tax Notes:	1 At le	east one of REF02 or	REF03 is required.		
		2 If eit	ther C04003 or C040	04 is present, then the other is required	1.	
		3 If eit	ther C04005 or C040	06 is present, then the other is required	1.	
Seman	tic Notes:	1 REF	F04 contains data rela	ting to the value cited in REF02.		
C	omments:					
		not indicate that interval details will be sent. If the RES wants to receive AMI Interval Data on a daily basis, then they would need to send REF~17~DAILY in either the 814 Enrollment Request or the 814 Change Request (after enrolling the account). Ameren Electric: Required ComEd: Not Used Gas: Not Used REF~KX~AMI				
			Data Elem	ent Summary		
	Ref.	Data		·		
	Des.	<u>Element</u>	<u>Name</u>		Attr	<u>ributes</u>
Must Use	REF01	128	<b>Reference Identifie</b>	cation Qualifier	Μ	ID 2/3
			Code qualifying the	Reference Identification		
			KX	Representation		
				AMI Data Availability		
Must Use	REF02	127	Reference Identifi	•	X	AN 1/30
winst Use	ALF V2	141	Reference fuenting	Lation	Λ	AIN 1/30

si Usc	KEI V2	141	Kelerence lucita		50
				ation as defined for a particular Transaction Set or as Reference Identification Qualifier AMI Interval Data is Available	
				AMI Interval Data is available for at least one meter this Service Point. The RES may send a Change Request for the AMI Data Preference Indicator (REF~17) to request to receive AMI interval details.	on
			NOTAMI	AMI Interval Data is Not Available	

Sema	Segment: Position: Loop: Level: Usage: Max Use: Purpose: itax Notes: comments: Notes:	030 PTD Detail Optional 20 To specif 1 At le 2 If eit 3 If eit 1 REF	Mandatory fy identifying informeration of REF02 of ther C04003 or C04 ther C04005 or C04 04 contains data rel Electric: Required Not Used	ification (Community Solar Participan nation or REF03 is required. 004 is present, then the other is required. 006 is present, then the other is required. ating to the value cited in REF02.	t Indica	ator)
		REF~AN	I~N			
	Ref.	Data	Data Elei	nent Summary		
	Des.	Element	Name		Attr	ributes
Must Use	REF01	128	Reference Identi	fication Qualifier		ID 2/3
			Code qualifying th	e Reference Identification		
			AN	Associated Purchase Orders		
				Community Solar Participant Indicato	r	
Must Use	REF02	127	<b>Reference Identif</b>	lication	Х	AN 1/30
				ation as defined for a particular Transaction eference Identification Qualifier No This customer does not participate in 0 for this Service Point (Ameren) Yes This customer participates in Commun	Commu	inity Solar

		DFL	ה				
	Segment:	KEI	Reference Identi	fication (Special Meter Configuration)			
	Position:	030					
	Loop:	PTD	Mandatory				
	Level:	Detail					
	Usage:	Optional					
	Max Use:	20					
	Purpose:		fy identifying inform				
Synt	ax Notes:			r REF03 is required.			
				004 is present, then the other is required.			
Saman	tic Notes:			006 is present, then the other is required. ating to the value cited in REF02.			
	omments:	I KEI	04 contains data ien	ating to the value cited in KEF02.			
	Notes:	Ameren	Electric: Required if	the Service Point has net metering			
	notes.		Not Used	the Service I onit has net metering			
		Gas: Not					
		Oub. 1101	0.500				
		DEE.KV	~NM-BI				
		KLI~KI					
			Data Elen	nent Summary			
	Ref.	Data					
	Des.	<u>Element</u>	<u>Name</u>		Attr	<u>ributes</u>	
Must Use	REF01	128	<b>Reference Identif</b>	ication Qualifier	Μ	ID 2/3	
			Code qualifying th	e Reference Identification			
			KY	Site Specific Procedures, Terms, and Co	onditi	ons	
				Special Meter Configuration			
Must Use	REF02	127	<b>Reference Identif</b>	ication	Х	AN 1/30	
			Reference informa	tion as defined for a particular Transaction	Set c	or as	
			specified by the Reference Identification Qualifier				
			BMG	Behind the Meter Generation			
			NM-BI	Net Metering - Bidirectional Meter			
			NM-GG	Net Metering - Gross Generation Meter			
				-			
			NM-GL	Net Metering - Gross Load Meter			

Segment:	<b>REF</b> Reference Identification (Low Income Customer Indicator)
Position:	030
Loop:	PTD Mandatory
Level:	Detail
Usage:	Optional
Max Use:	20
<b>Purpose:</b>	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 if applicable
	REF~5E~Y
	Data Element Summary

<b>Data Element</b>	Summary
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	Ref.	Data			
	Des.	<u>Element</u>	<u>Name</u>		<b>Attributes</b>
Must Use	REF01	128	<b>Reference Identifi</b>	cation Qualifier	M ID 2/3
			Code qualifying the	e Reference Identification	
			5E	Consumer Identifier	
				Low Income Customer Indicator	
Must Use	REF02	127	<b>Reference Identifi</b>	cation	X AN 1/30
				tion as defined for a particular Transaction ference Identification Qualifier No	n Set or as
			Y	This customer has not received financia the previous 12 months from the Low I Energy Assistance Program and is not o participating in the Percentage of Incon Yes	ncome Home currently
				This customer either received financial previous 12 months from the Low Inco Energy Assistance Program or is currer in the Percentage of Income Payment P	me Home ntly participating

Synt	Segment: Position: Loop: Level: Usage: Max Use: Purpose: tax Notes: omments: Notes:	110 QTY Detail Optional 1 To specif 1 At le 2 Only 1 QTY Required kW, kWł off-peak, QTY~QI	<ul><li>'04 is used when the of</li><li>There may be one on, kVARH, Therms).</li></ul>	n		
			Data Elemo	ent Summary		
	Ref.	Data	Dutu Lieni	che Summury		
	Des.	Element	Name			<u>ributes</u>
Must Use	QTY01	673	<b>Quantity Qualifier</b>		Μ	ID 2/2
			Code specifying the	type of quantity		
			KA	Estimated		
				Estimated Quantity Delivered		
			QD	Quantity Delivered		
				Actual Quantity Delivered		
Must Use	QTY02	380	Quantity		Х	R 1/15
	-		Numeric value of qu	antity		
			-	of consumption delivered for service peri	iod	
Must Use	QTY03	C001	Composite Unit of		0	
	•		-	osite unit of measure (See Figures Append	dix fo	or examples
			of use)			I I I
Must Use	C00101	355	Unit or Basis for M	leasurement Code	Μ	ID 2/2
			Code specifying the	units in which a value is being expressed	, or n	nanner in
			which a measurement			
			K1	Kilowatt Demand		
				KW		
			K3	Kilovolt Amperes Reactive Hour		
				KVARH		
			KH	Kilowatt Hour		
				KWH		
			TD	Therms		

	Segment:	ME	<b>A</b> Measurements	(Consumption)		
	Position:	160		(Consumption)		
	Loop:	QTY	Optional			
	Level:	Detail	optional			
	Usage:	Optional				
	Max Use:	40				
	Purpose:			ments or counts, including dimensions, tol	eranc	es, variances,
~				opendix for example of use of C001)		
Syn	tax Notes:			MEA05 MEA06 or MEA08 is required.		
				en MEA04 is required.		
			-	en MEA04 is required. en at least one of MEA03 MEA05 or MEA	06 10	roquirad
				MEA03 may be present.	100 15	lequileu.
Semai	ntic Notes:	-		of measure for MEA03, MEA05, and ME	A06.	
	omments:			l tolerances, any measurement requiring a		(+ or -), or
				a positive (+) value cannot be assumed, u		
				IEA06 as the positive (+) value.		
	Notes:	Required	l			
			A :	the second of the second of the second se	L	) <u>to usuant</u>
			-	ch unit of measure (kW, kWh, KVARH, Th d (MEA07=51) and additional MEA segm		· •
				pplicable (MEA07 = 41 or 42)	ients	will be
		provided		$\frac{1}{100} = \frac{1}{100} = \frac{1}$		
		If the me	ter registers on and	off peak, the utility will send 0 if there wa	s no u	usage, if the
				and off peak, it will not be sent.		U ,
		MEA~~I	PRQ~1234~KH~~~	51		
		MEA~~I	PRQ~150~TD~~~51	1		
			Data Flar	nent Summary		
	Ref.	Data	Data Liei	nent Summary		
	Des.	Element	<u>Name</u>		Att	<u>ributes</u>
Must Use	MEA02	738	Measurement Qu	alifier	0	ID 1/3
			Code identifying a	specific product or process characteristic	to wh	hich a
			measurement appl			
			PRQ	Product Reportable Quantity		
Must Use	MEA03	739	Measurement Va	lue	Х	R 1/20
			The value of the m	easurement		
			Represents quantit	y of consumption delivered for service per	riod.	
Must Use	MEA04	C001	Composite Unit o		X	
			-	posite unit of measure (See Figures Apper		or examples
			of use)	source and of measure (see Figures reper		or examples
Must Use	C00101	355		Measurement Code	Μ	ID 2/2
			Code specifying th	e units in which a value is being expressed	d, or i	manner in
				ent has been taken	.,	
			K1	Kilowatt Demand		
				KW		
			K3	Kilovolt Amperes Reactive Hour		
				KVARH		
			KH	Kilowatt Hour		
			1111	KWH		
			TD			
Mar -4 TT		0.25	TD Magazing and Sig	Therms	•	ID 2/2
IVIUSE USE	MEA07	935	Measurement Sig	nnicance Code	U	ID 2/2

	Segment:	DTN	<b>A</b> Date/Time Reference (Service Period Start Date)				
	<b>Position:</b>	210					
	Loop:	QTY	Optional				
	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.				
<b>C</b>	4. N. 4	3 If eit	ther DTM05 or DTM06 is present, then the other is required.				
10 0 0 0 0	tic Notes: omments:						
C	Notes:	Required					
	INUICS.	-					
			e reflects the beginning of the data range for this usage.				
		DTM~15	50~20130824				
	ъ¢		Data Element Summary				
	Ref.	Data Element	Nome	A 44			
Must Use	<u>Des.</u> DTM01	Element 374	Name Doto/Time Qualifier	<u>Attributes</u> M ID 3/3			
wiust Use	DIMUI	5/4	Date/Time Qualifier	M ID 5/5			
			Code specifying type of date or time, or both date and time				
			150 Service Period Start				
Must Use	DTM02	373	Date	X DT 8/8			
			Date expressed as CCYYMMDD				

	Segment:	DTN	<b>A</b> Date/Time Reference (Service Period End Date)	
	<b>Position:</b>	210		
	Loop:	QTY	Optional	
	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.	
a		3 If ei	ther DTM05 or DTM06 is present, then the other is required.	
	tic Notes:			
C	omments:			
	Notes:	Required		
			reflects the ending of the data range for this usage.	
		DTM~15	51~20130901	
			Data Element Summary	
	Ref.	Data		<b></b> .
	Des.	Element	<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	<b>DTM02</b>	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	
			*	

			7					
	Segment:	QTY	Quantity (Total (	On-Site Generation)				
	Position:	110						
	Loop:	QTY Optional						
	Level:	Detail						
	Usage:	Optional						
	Max Use:	1						
Sum	Purpose:		fy quantity information					
Syn	tax Notes:		east one of QTY02 or	TY04 may be present.				
Semar	ntic Notes:			quantity is non-numeric.				
	omments:	1 211	or is used when the	quantity is non numeric.				
-	Notes:	Ameren:	Required when servi	ce point has on-site generation.				
			NotUsed					
		QTY~87	~300~KH					
			AF*PRQ*300*KH**	**51				
			150*20181125					
		DTM*	151*20181224					
			Data Flem	ent Summary				
	Ref.	Data	Data Elem	ent Summary				
	Des.	Element	Name					
			Ivalle		Att	ridutes		
Must Use	QTY01	<u>673</u>	Quantity Qualifier		<u>Att</u> M	<u>ributes</u> ID 2/2		
Must Use					-			
Must Use			<b>Quantity Qualifier</b> Code specifying the	type of quantity	-			
Must Use			Quantity Qualifier	type of quantity Quantity Received	-			
Must Use			Quantity Qualifier Code specifying the 87	type of quantity Quantity Received Total On-Site Generation (Actual)	-			
Must Use			<b>Quantity Qualifier</b> Code specifying the	type of quantity Quantity Received Total On-Site Generation (Actual) Estimated Duration	-			
	QTY01	673	<b>Quantity Qualifier</b> Code specifying the 87 9H	type of quantity Quantity Received Total On-Site Generation (Actual)	M	ID 2/2		
Must Use Must Use			Quantity Qualifier Code specifying the 87 9H Quantity	e type of quantity Quantity Received Total On-Site Generation (Actual) Estimated Duration Total On-Site Generation (Estimated)	-			
	QTY01	673	Quantity Qualifier Code specifying the 87 9H Quantity Numeric value of qu	e type of quantity Quantity Received Total On-Site Generation (Actual) Estimated Duration Total On-Site Generation (Estimated)	M	ID 2/2		
Must Use	QTY01 QTY02	673 380	Quantity Qualifier         Code specifying the         87         9H         Quantity         Numeric value of quantity         Represents the total	type of quantity Quantity Received Total On-Site Generation (Actual) Estimated Duration Total On-Site Generation (Estimated)	M	ID 2/2		
	QTY01	673	Quantity Qualifier Code specifying the 87 9H Quantity Numeric value of qu	type of quantity Quantity Received Total On-Site Generation (Actual) Estimated Duration Total On-Site Generation (Estimated) antity on-site measured generation.	M	ID 2/2		
Must Use	QTY01 QTY02	673 380	Quantity Qualifier         Code specifying the         87         9H         Quantity         Numeric value of qu         Represents the total         Composite Unit of         To identify a compo	type of quantity Quantity Received Total On-Site Generation (Actual) Estimated Duration Total On-Site Generation (Estimated) antity on-site measured generation.	M X O	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 quantity         Represents the total         Composite Unit of         To identify a compoord         of use)	e type of quantity Quantity Received Total On-Site Generation (Actual) Estimated Duration Total On-Site Generation (Estimated) uantity on-site measured generation. Measure osite unit of measure (See Figures Appen	M X O dix f	ID 2/2 R 1/15 or examples		
Must Use	QTY01 QTY02	673 380	Quantity Qualifier         Code specifying the         87         9H         Quantity         Numeric value of quantity         Represents the total         Composite Unit of         To identify a composite 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 on-site measured generation. Measure osite unit of measure (See Figures Appen Heasurement Code	M X dix fo M	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 qu         Represents the total         Composite Unit of         To identify a composite of use)         Unit or Basis for N         Code specifying the	<ul> <li>type of quantity</li> <li>Quantity Received</li> <li>Total On-Site Generation (Actual)</li> <li>Estimated Duration</li> <li>Total On-Site Generation (Estimated)</li> <li>uantity</li> <li>on-site measured generation.</li> <li>Measure</li> <li>osite unit of measure (See Figures Appen</li> <li>feasurement Code</li> <li>units in which a value is being expressed</li> </ul>	M X dix fo M	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 qu         Represents the total         Composite Unit of         To identify a compoor         Of use)         Unit or Basis for M         Code specifying the         which a measureme	<ul> <li>type of quantity</li> <li>Quantity Received</li> <li>Total On-Site Generation (Actual)</li> <li>Estimated Duration</li> <li>Total On-Site Generation (Estimated)</li> </ul> antity on-site measured generation. Measure osite unit of measure (See Figures Appen) feasurement Code units in which a value is being expressed nt has been taken	M X dix fo M	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 qu         Represents the total         Composite Unit of         To identify a composite of use)         Unit or Basis for N         Code specifying the	<ul> <li>type of quantity</li> <li>Quantity Received</li> <li>Total On-Site Generation (Actual)</li> <li>Estimated Duration</li> <li>Total On-Site Generation (Estimated)</li> <li>uantity</li> <li>on-site measured generation.</li> <li>Measure</li> <li>osite unit of measure (See Figures Appen</li> <li>feasurement Code</li> <li>units in which a value is being expressed</li> </ul>	M X dix fo M	ID 2/2 R 1/15 or examples ID 2/2		

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 specifiand 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 MEA</li> <li>1 When any mega</li> <li>Ameren:</li> <li>ComEd:</li> <li>QTY*87</li> </ul>	Optional fy physical measurem hts (See Figures App east one of MEA03 M EA05 is present, then EA06 is present, then y one of MEA08 or M A04 defines the unit of en citing dimensional measurement where a titive (-) value and MI	(On-Site Generation) ments or counts, including dimensions, tole pendix for example of use of C001) MEA05 MEA06 or MEA08 is required. a MEA04 is required. a MEA04 is required. a t least one of MEA03 MEA05 or MEA MEA03 may be present. of measure for MEA03, MEA05, and ME tolerances, any measurement requiring a a positive (+) value cannot be assumed, use EA06 as the positive (+) value. a point has on-site generation.	A06 is A06. sign	required. (+ or -), or
			Data Elem	ent Summary		
	Ref.	Data			• • •	
Must Use	<u>Des.</u> MEA01	Element 737	<u>Name</u> Measurement Refe	erence ID Code		<u>ributes</u> ID 2/2
Must Osc	10112/101	151		e broad category to which a measuremen		
			AF	Actual Total	, appi	
Must Use	MEA03	739	Measurement Valu		Х	R 1/20
			The value of the me	easurement		
			Represents quantity	of on-site generation received for servic	e peri	od.
	MEA04	C001	Composite Unit of	Measure	Х	
				osite unit of measure (See Figures Appen	ndix f	or examples
March II.co	C00101	255	of use)		М	ID 2/2
Must Use	C00101	355		<b>Ieasurement Code</b>		ID 2/2
			which a measureme KH	e units in which a value is being expresse ent has been taken Kilowatt Hour KWH	u, or i	namer m
Must Use	<b>MEA07</b>	935	Measurement Sign	iificance Code	0	ID 2/2
			Code used to bench 51	mark, qualify or further define a measure Total	ement	value

	Segment:	DTN	<b>A</b> Date/Time Reference (Service Period Start Date)	
	Position:	210		
	Loop:	QTY	Optional	
	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.	
<b>G</b>	4. NT . 4	3 If eit	her DTM05 or DTM06 is present, then the other is required.	
	tic Notes:			
C	omments: Notes:	Required		
	notes:	-		
			reflects the beginning of the data range for this usage.	
		DTM~15	50~20130824	
	<b>D</b> 4	<b>D</b> (	Data Element Summary	
	Ref.	Data	N	A 44 . •1 . 4
	Des.	Element	Name Deta/Time Orgelificar	<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	
			150 Service Period Start	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	
			-	

	Segment:	DTN	<b>A</b> Date/Time Reference (Service Period End Date)	
	<b>Position:</b>	210		
	Loop:	QTY	Optional	
	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.	
<b>G</b>	4. NT - 4	3 If eit	ther DTM05 or DTM06 is present, then the other is required.	
	tic Notes: omments:			
C	Notes:	Required		
	notes.	-		
			reflects the ending of the data range for this usage.	
		DTM~15	51~20130901	
	ъ¢		Data Element Summary	
	Ref.	Data Element	Nome	A 44
Must Use	<u>Des.</u> DTM01	Element 374	Name Data/Time Qualifier	<u>Attributes</u> M ID 3/3
wiust Use	DIMUI	374	Date/Time Qualifier	M ID 5/5
			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:QTTY Quantity (Total Off-Site Generation)Position:110Loop:QTY OptionalLevel:DetailUsage:OptionalMax Use:1Purpose:To specify quantity informationSyntax Notes:1At least one of QTY02 or QTY04 is required.2Only one of QTY02 or QTY04 may be present.1QTY04 is used when the quantity is non-numeric.Semantic Notes: Comments:Ameren: Required when customer has off-site generation such as Community Solar. ComEd: Not Used QTY*77*100*KH MEA*AF*PRQ*100*KH***51 DTM*150*20181125 DTM*151*20181224						
	Df		Data Elem	ent Summary		
	Ref. Des.	Data Element	Name		Att	ributes
Must Use	QTY01	673	Quantity Qualifier			ID 2/2
			Code specifying the	e type of quantity		
			77	Stock Transfers In		
				Off-Site Generation (e.g., Community	Solar)	
Must Use	QTY02	380	Quantity		Х	R 1/15
			Numeric value of qu			
			Represents the total off-site generation (e.g., Community Solar).			
Must Use	QTY03	C001	Composite Unit of	Measure	0	
			To identify a compo of use)	osite unit of measure (See Figures Appe	ndix fo	or examples
Must Use	C00101	355	Unit or Basis for N	Ieasurement Code	Μ	ID 2/2
Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken KH Kilowatt Hour KWH						

		MT	Λ			
	Segment:		${f A}$ Measurements (Off-Site Generation)			
	Position:	160				
	Loop: QTY Optional					
	Level:					
	Usage: Optional					
	Max Use:	40 Ta an a i	f			
	Purpose:		cify physical measurements or counts, including dimensions, tolerances, variances,			
Svn	tax Notes:		ths (See Figures Appendix for example of use of C001) east one of MEA03 MEA05 MEA06 or MEA08 is requi			
Syn	tax notes.		MEA05 is present, then MEA04 is required.			
	<ul><li>3 If MEA06 is present, then MEA04 is required.</li></ul>					
			EA07 is present, then at least one of MEA03 MEA05 or	r MEA06 is	required.	
			y one of MEA08 or MEA03 may be present.		1	
Semar	ntic Notes:		A04 defines the unit of measure for MEA03, MEA05, and	nd MEA06.		
С	omments:	1 Whe	en citing dimensional tolerances, any measurement requi	iring a sign (	+ or -), or	
			measurement where a positive (+) value cannot be assur	med, use ME	A05 as the	
			ative (-) value and MEA06 as the positive (+) value.			
	Notes:		Required when customer has off-site generation such as	s Community	y Solar.	
			Not Used			
			PRQ~1234~KH~~~51			
		MEA~~F	PRQ~150~TD~~~51			
			Data Element Summary			
	Ref.	Data	Ducu Element Summing			
	Des.	Element	Name	Attr	ributes	
Must Use	MEA01	737	Measurement Reference ID Code		ID 2/2	
			Code identifying the broad category to which a measu	rement appli	es	
			Code identifying the broad category to which a measu AF Actual Total	rement appli	es	
Must Use	MEA02	738	AF Actual Total	rement appli O		
Must Use	MEA02	738	AF Actual Total Measurement Qualifier	0	ID 1/3	
Must Use	MEA02	738	AFActual TotalMeasurement QualifierCode identifying a specific product or process character	0	ID 1/3	
Must Use	MEA02	738	AFActual TotalMeasurement QualifierCode identifying a specific product or process charactermeasurement applies	0	ID 1/3	
			AFActual TotalMeasurement QualifierCode identifying a specific product or process charactermeasurement appliesPRQProduct Reportable Quantity	<b>O</b> eristic to whi	<b>ID 1/3</b> ich a	
Must Use Must Use	MEA02 MEA03	738 739	AFActual TotalMeasurement QualifierCode identifying a specific product or process charactermeasurement appliesPRQProduct Reportable QuantityMeasurement Value	0	ID 1/3	
			AFActual TotalMeasurement QualifierCode identifying a specific product or process character measurement applies PRQPRQProduct Reportable QuantityMeasurement ValueThe value of the measurement	O eristic to whi X	ID 1/3 ich a R 1/20	
			AFActual TotalMeasurement QualifierCode identifying a specific product or process character measurement applies PRQPRQProduct Reportable QuantityMeasurement ValueThe value of the measurementRepresents quantity of off-site generation (e.g., Comm	O eristic to whi X	ID 1/3 ich a R 1/20	
	MEA03	739	AFActual TotalMeasurement QualifierCode identifying a specific product or process character measurement applies PRQPRQProduct Reportable QuantityMeasurement ValueThe value of the measurementRepresents quantity of off-site generation (e.g., Comm service period.	O eristic to whi X	ID 1/3 ich a R 1/20	
			AFActual TotalMeasurement QualifierCode identifying a specific product or process character measurement applies PRQPRQProduct Reportable QuantityMeasurement ValueThe value of the measurementRepresents quantity of off-site generation (e.g., Comm service period.Composite Unit of Measure	O eristic to whi X nunity Solar) X	ID 1/3 ich a R 1/20 received for	
	MEA03	739	AFActual TotalMeasurement QualifierCode identifying a specific product or process character measurement applies PRQPRQProduct Reportable QuantityMeasurement ValueThe value of the measurementRepresents quantity of off-site generation (e.g., Comm service period.Composite Unit of MeasureTo identify a composite unit of measure (See Figures)	O eristic to whi X nunity Solar) X	ID 1/3 ich a R 1/20 received for	
Must Use	MEA03 MEA04	739 C001	AFActual TotalMeasurement QualifierCode identifying a specific product or process character measurement applies PRQPRQProduct Reportable QuantityMeasurement ValueThe value of the measurementRepresents quantity of off-site generation (e.g., Comm service period.Composite Unit of MeasureTo identify a composite unit of measure (See Figures of use)	O eristic to whi X nunity Solar) X Appendix fo	ID 1/3 ich a R 1/20 received for or examples	
	MEA03	739	AFActual TotalMeasurement QualifierCode identifying a specific product or process character measurement applies PRQPRQProduct Reportable QuantityMeasurement ValueThe value of the measurementRepresents quantity of off-site generation (e.g., Comm service period.Composite Unit of MeasureTo identify a composite unit of measure (See Figures of use)Unit or Basis for Measurement Code	O eristic to whi X nunity Solar) X Appendix fo M	ID 1/3 ich a R 1/20 received for or examples ID 2/2	
Must Use	MEA03 MEA04	739 C001	AFActual TotalMeasurement QualifierCode identifying a specific product or process character measurement applies PRQPRQProduct Reportable QuantityMeasurement ValueThe value of the measurementRepresents quantity of off-site generation (e.g., Comm service period.Composite Unit of MeasureTo identify a composite unit of measure (See Figures of use)Unit or Basis for Measurement CodeCode specifying the units in which a value is being explanation	O eristic to whi X nunity Solar) X Appendix fo M	ID 1/3 ich a R 1/20 received for or examples ID 2/2	
Must Use	MEA03 MEA04	739 C001	AFActual TotalMeasurement QualifierCode identifying a specific product or process character measurement applies PRQPRQProduct Reportable QuantityMeasurement ValueThe value of the measurementRepresents quantity of off-site generation (e.g., Comm service period.Composite Unit of MeasureTo identify a composite unit of measure (See Figures of use)Unit or Basis for Measurement CodeCode specifying the units in which a value is being exp which a measurement has been taken	O eristic to whi X nunity Solar) X Appendix fo M	ID 1/3 ich a R 1/20 received for or examples ID 2/2	
Must Use	MEA03 MEA04	739 C001	AFActual TotalMeasurement QualifierCode identifying a specific product or process character measurement applies PRQPRQProduct Reportable QuantityMeasurement ValueThe value of the measurementRepresents quantity of off-site generation (e.g., Comm service period.Composite Unit of MeasureTo identify a composite unit of measure (See Figures of use)Unit or Basis for Measurement CodeCode specifying the units in which a value is being expwhich a measurement has been taken KHKHKilowatt Hour	O eristic to whi X nunity Solar) X Appendix fo M	ID 1/3 ich a R 1/20 received for or examples ID 2/2	
Must Use Must Use	MEA03 MEA04 C00101	739 C001 355	AF       Actual Total         Measurement Qualifier       Code identifying a specific product or process character measurement applies         PRQ       Product Reportable Quantity         Measurement Value       The value of the measurement         Represents quantity of off-site generation (e.g., Commonservice period.       Composite Unit of Measure         To identify a composite unit of measure (See Figures of use)       Unit or Basis for Measurement Code         Code specifying the units in which a value is being explosing the units in which a traited of the measurement has been taken       KH         KH       Kilowatt Hour	O eristic to whi X nunity Solar) X Appendix fo M pressed, or n	ID 1/3 ich a R 1/20 received for or examples ID 2/2 nanner in	
Must Use	MEA03 MEA04	739 C001	AF       Actual Total         Measurement Qualifier         Code identifying a specific product or process character         measurement applies         PRQ       Product Reportable Quantity         Measurement Value         The value of the measurement         Represents quantity of off-site generation (e.g., Commisservice period.         Composite Unit of Measure         To identify a composite unit of measure (See Figures of use)         Unit or Basis for Measurement Code         Code specifying the units in which a value is being explosite a measurement has been taken         KH       Kilowatt Hour         KWH         Measurement Significance Code	O eristic to whi X nunity Solar) X Appendix fo M pressed, or n	ID 1/3 ich a R 1/20 received for or examples ID 2/2 nanner in ID 2/2	
Must Use Must Use	MEA03 MEA04 C00101	739 C001 355	AF       Actual Total         Measurement Qualifier       Code identifying a specific product or process character measurement applies         PRQ       Product Reportable Quantity         Measurement Value       The value of the measurement         Represents quantity of off-site generation (e.g., Commonservice period.       Composite Unit of Measure         To identify a composite unit of measure (See Figures of use)       Unit or Basis for Measurement Code         Code specifying the units in which a value is being explosing the units in which a traited of the measurement has been taken       KH         KH       Kilowatt Hour	O eristic to whi X nunity Solar) X Appendix fo M pressed, or n	ID 1/3 ich a R 1/20 received for or examples ID 2/2 nanner in ID 2/2	

Segment:	DTN	<b>A</b> Date/Time Reference (Service Period Start Date)			
Position: 210					
Loop:	QTY	Optional			
Level:					
Usage:	Optional				
Max Use:					
	Purpose: To specify pertinent dates and times				
Syntax Notes:		east one of DTM02 DTM03 or DTM05 is required.			
		FM04 is present, then DTM03 is required.			
Semantic Notes:	3 If eit	her DTM05 or DTM06 is present, then the other is required.			
Comments:					
Notes:	Required				
•					
	This date reflects the beginning of the data range for this usage.				
	DTM~150~20130824				
Data Element Summary Ref. Data					
Des.	Element	Name	Attributes		
Must Use DTM01	<u>374</u>	Date/Time Qualifier	M ID 3/3		
Must Osc DIMOI	5/4	-	M ID 5/5		
		Code specifying type of date or time, or both date and time			
		150 Service Period Start			
Must Use DTM02	373	Date	X DT 8/8		
		Date expressed as CCYYMMDD			

	Segment:	DTN	<b>A</b> Date/Time Reference (Service Period End Date)		
	Position: 210				
	Loop:	QTY	Optional		
	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.		
	2 If DTM04 is present, then DTM03 is required.				
G	3 If either DTM05 or DTM06 is present, then the other is required.				
	tic Notes:				
C	omments:	D a autima d			
Notes: Required					
	This date reflects the ending of the data range for this usage.				
	DTM~151~20130901				
		-	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		
			-		

Synt	Segment: Position: Loop: Level: Usage: Max Use: Purpose: tax Notes: tic Notes: omments: Notes:	110 QTY Detail Optional 1 To speci: 1 At le 2 Only 1 QTY Ameren:	Quantity (Starting Bank) Optional y quantity information ast one of QTY02 or QTY04 is required when the quantity is non-to- Required when service point has a Start	resent. numeric.		
			Not Used			
			I*500*KH AF*PRQ*500*KH***51			
			50*20181125			
		DTM*	51*20181224			
			Data Element Summary			
	Ref.	Data Element	Nomo	A 44	····*]h ···· 4 ·· ··	
Must Use	<u>Des.</u> QTY01	Element 673	<u>Name</u> Quantity Qualifier		ributes ID 2/2	
112000 0.50	<b>X</b>	0.0	Code specifying the type of quantity			
			QH Quantity on H			
			Starting Bank			
Must Use	QTY02	380	Quantity	X	R 1/15	
			Numeric value of quantity			
			Represents the kWh that were banked from prior month's excess generation			
Must Use	<b>QTY03</b>	C001	including both on and off-site.			
wiust Use	Q1103	C001	<b>Composite Unit of Measure</b> To identify a composite unit of mea	0	or oxemples	
			of use)	sure (see Figures Appendix I	or examples	
Must Use	C00101	355	Unit or Basis for Measurement Co	ode M	ID 2/2	
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken KH Kilowatt Hour			
			KWH			

Syn	Segment: Position: Loop: Level: Usage: Max Use: Purpose: tax Notes:	160 QTY Detail Optional 40 To specifi and weig <b>1</b> At let <b>2</b> If M	A Measurements (Starting Bank) Optional fy physical measurements or counts, including din that (See Figures Appendix for example of use of east one of MEA03 MEA05 MEA06 or MEA08 is EA05 is present, then MEA04 is required. EA06 is present, then MEA04 is required.	C001)		
	ntic Notes: Comments: Notes:	<ul> <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> <li>Only one of MEA08 or MEA03 may be present.</li> <li>MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.</li> <li>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.</li> <li>Ameren: Required when service point has a Starting Bank.</li> <li>ComEd: Not Used QTY*QH*500*KH</li> </ul>				
		MEA*	AF*PRQ*500*KH***51			
	Ref.	Data	Data Element Summary			
	Des.	<u>Element</u>	Name	Attributes		
Must Use	MEA01	737	Measurement Reference ID Code	X ID 2/2		
			Code identifying the broad category to which a r	neasurement applies		
			AF Actual Total			
Must Use	MEA02	738	Measurement Qualifier	O ID 1/3		
			Code identifying a specific product or process ch measurement applies PRQ Product Reportable Quantit	у		
Must Use	MEA03	739	Measurement Value	X R 1/20		
			The value of the measurement			
			Represents the kWh that were banked from prior	month's excess generation		
Must Use	MEA04	C001	including both on and off-site. Composite Unit of Measure	X		
with the second	WILAU4	CUUI	To identify a composite unit of measure (See Figor of use)	gures Appendix for examples		
Must Use	C00101	355	Unit or Basis for Measurement Code	M ID 2/2		
			Code specifying the units in which a value is bei which a measurement has been taken	ng expressed, or manner in		
			KH Kilowatt Hour KWH			
Must Use	MEA07	935	KH Kilowatt Hour KWH	O ID 2/2		
Must Use	MEA07	935	KH Kilowatt Hour			

	Segment:	DTN	<b>A</b> Date/Time Reference (Service Period Start Date)	
	<b>Position:</b>	210		
	Loop:	QTY	Optional	
	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.	
<b>C</b>	4° - NT - 4	3 If eit	ther DTM05 or DTM06 is present, then the other is required.	
10 0 0 0 0	tic Notes: omments:			
C	Notes:	Required		
	Notes.	-		
			e reflects the beginning of the data range for this usage.	
		DTM~15	50~20130824	
	ъ¢		Data Element Summary	
	Ref.	Data Element	Nome	A 44
Must Use	<u>Des.</u> DTM01	Element 374	Name Doto/Time Qualifier	<u>Attributes</u> M ID 3/3
wiust Use	DIMUI	5/4	Date/Time Qualifier	M ID 5/5
			Code specifying type of date or time, or both date and time	
			150 Service Period Start	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

	Segment:	DTN	<b>A</b> Date/Time Reference (Service Period End Date)	
	<b>Position:</b>	210		
	Loop:	QTY	Optional	
	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 ei	ther DTM05 or DTM06 is present, then the other is required.	
	tic Notes:			
C	omments:	D a autima d		
	Notes:	Required		
			reflects the ending of the data range for this usage.	
		DTM~15	51~20130901	
		-	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:	PTD	Product Transfer	r and Resale Detail (Interval Metered	Servic	es Detail)	
	Position:	010				,	
	Loop:	PTD	Mandatory				
	Level:	Detail	j				
	Usage:	Mandato	ry				
	Max Use:	1					
	Purpose:		ate the start of detail i dentifying data	information relating to the transfer/resal	e of a p	product and	
Synt	tax Notes:	1 If eit	1 If either PTD02 or PTD03 is present, then the other is required.				
Seman	tic Notes:	- 11 01		s is present, alen die odier is required.			
	omments:						
	Notes:	PTD Loc	ops may be sent in an	y order.			
				account and HI was requested on the 81	4 Histo	orical usage	
				TD~BQ loop for each service period for			
		PTD~BC					
			-~~OZ~EL				
			Data Elem	ient Summary			
	Ref.	Data					
	Des.	Element	Name			ributes	
Must Use	<u>Des.</u> PTD01	Element 521	<u>Name</u> Product Transfer	Type Code	<u>Att</u> M	<u>ributes</u> ID 2/2	
Must Use			<b>Product</b> Transfer	<b>Type Code</b> the type of product transfer			
Must Use			<b>Product</b> Transfer				
Must Use			<b>Product Transfer</b> Code identifying th	e type of product transfer	Μ	ID 2/2	
Must Use			<b>Product Transfer</b> Code identifying th	e type of product transfer Other Total interval usage for all meters on	Μ	ID 2/2	
Must Use	PTD01	521	Product Transfer Code identifying th BQ Reference Identifie	other Other Total interval usage for all meters on cation Qualifier	M the acc	ID 2/2	
Must Use	PTD01	521	Product Transfer Code identifying th BQ Reference Identifie Code qualifying the	e type of product transfer Other Total interval usage for all meters on	M the acc	ID 2/2	
Must Use	PTD01	521	Product Transfer Code identifying th BQ Reference Identifie	other Other Total interval usage for all meters on cation Qualifier	M the acc	ID 2/2	
Must Use	PTD01	521	Product Transfer         Code identifying the         BQ         Reference Identified         Code qualifying the         Ameren: Required	other Other Total interval usage for all meters on cation Qualifier	M the acc	ID 2/2	
Must Use	PTD01	521	Product Transfer         Code identifying the         BQ         Reference Identified         Code qualifying the         Ameren: Required         ComEd: Not Used	Product Number	M the acc	ID 2/2	
Must Use	PTD01 PTD04	521	Product Transfer Code identifying the BQ Reference Identifue Code qualifying the Ameren: Required ComEd: Not Used OZ	Product Number Commodity	M the acc	ID 2/2 ount ID 2/3	
Must Use	PTD01	521	Product Transfer         Code identifying the         BQ         Reference Identified         Code qualifying the         Ameren: Required         ComEd: Not Used         OZ	Product Number Commodity Commodity Cation Up Commodity Cation Commodity Cation	M the acc X	ID 2/2 ount ID 2/3 AN 1/30	
Must Use	PTD01 PTD04	521	<ul> <li>Product Transfer</li> <li>Code identifying the BQ</li> <li>Reference Identified</li> <li>Code qualifying the Ameren: Required</li> <li>ComEd: Not Used OZ</li> <li>Reference Identified</li> <li>Reference Identified</li> </ul>	Product Number Commodity Commodity cation as defined for a particular Transaction	M the acc X	ID 2/2 ount ID 2/3 AN 1/30	
Must Use	PTD01 PTD04	521	<ul> <li>Product Transfer</li> <li>Code identifying the BQ</li> <li>Reference Identified</li> <li>Code qualifying the Ameren: Required</li> <li>ComEd: Not Used OZ</li> <li>Reference Identified</li> <li>Reference information</li> <li>specified by the Reference</li> </ul>	Product Number Commodity Commodity Cation Use of product transfer Total interval usage for all meters on the commodity Commodity Cation	M the acc X	ID 2/2 ount ID 2/3 AN 1/30	
Must Use	PTD01 PTD04	521	<ul> <li>Product Transfer</li> <li>Code identifying the BQ</li> <li>Reference Identified</li> <li>Code qualifying the Ameren: Required</li> <li>ComEd: Not Used OZ</li> <li>Reference Identified</li> <li>Reference Identified</li> </ul>	Product Number Commodity Commodity cation as defined for a particular Transaction	M the acc X	ID 2/2 ount ID 2/3 AN 1/30	
Must Use	PTD01 PTD04	521	<ul> <li>Product Transfer</li> <li>Code identifying the BQ</li> <li>Reference Identified</li> <li>Code qualifying the Ameren: Required</li> <li>ComEd: Not Used OZ</li> <li>Reference Identified</li> <li>Reference information</li> <li>specified by the Rese</li> <li>Ameren: Required</li> </ul>	Product Number Commodity Commodity cation as defined for a particular Transaction	M the acc X	ID 2/2 ount ID 2/3 AN 1/30	
Must Use	PTD01 PTD04	521	<ul> <li>Product Transfer</li> <li>Code identifying the BQ</li> <li>Reference Identified</li> <li>Code qualifying the Ameren: Required</li> <li>ComEd: Not Used</li> <li>OZ</li> <li>Reference Identified</li> <li>Reference informat</li> <li>specified by the Re</li> <li>Ameren: Required</li> <li>ComEd: Not Used</li> <li>ComEd: Not Used</li> </ul>	Product Number Commodity Commodity Cation Qualifier Commodity Cation	M the acc X	ID 2/2 ount ID 2/3 AN 1/30	

	Segment:	DTN	<b>A</b> Date/Time Reference (Service Period Start)		
	Position:	020			
	Loop:	PTD	Mandatory		
	Level:	Detail			
	Usage:	Optional			
	Max Use:	1			
	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 eit	ther DTM05 or DTM06 is present, then the other is required.		
	tic Notes:				
С	omments:	_			
	Notes: Required				
		This date	reflects the beginning of the date range for this transaction.		
		DTM~15	50~20131201		
			Data Element Summary		
	Ref.	Data			
	Des.	Element	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	Х	DT 8/8
			Date expressed as CCYYMMDD		

	Segment:	DTN	<b>A</b> Date/Time Reference (Service Period End)		
	Position:	020			
	Loop:	PTD	Mandatory		
	Level:	Detail			
	Usage:	Optional			
	Max Use:	1			
	Purpose:		Ty pertinent dates and times		
Synt	tax Notes:		east one of DTM02 DTM03 or DTM05 is required.		
			FM04 is present, then DTM03 is required.		
		3 If eit	ther DTM05 or DTM06 is present, then the other is required.		
	tic Notes:				
С	omments:	-			
	Notes:	Required			
		This date	reflects the ending of the date range for this transaction.		
		DTM~15	51~20131231		
			Data Element Summary		
	Ref.	Data			
	Des.	<u>Element</u>	Name	Attr	<u>ibutes</u>
Must Use	DTM01	374	Date/Time Qualifier	Μ	ID 3/3
			Code specifying type of date or time, or both date and time		
			151 Service Period End		
Must Use	DTM02	373	Date	Х	DT 8/8
			Date expressed as CCYYMMDD		
			Duce enpressed us COT THINDD		

Segment:       QTY       Quantity         Position:       110         Loop:       QTY       Optional         Levei:       Detail       Usage:       Optional         Max Use:       1       To specify quantity information				7		
Position:       110         Loop:       QTY       Optional         Levet:       Detail       Usage:         Visation:       0       1         Max Use:       1       At least one of QTY02 or QTY04 is required.       2         Syntax Note:       1       At least one of QTY02 or QTY04 may be present.       3         Semantic Note::       1       QTY0 is used when the quantity is non-numeric.       3         Note::       There will be one QTY loop for each interval for the meter with individual MEA segments for each type of consumption (i.e., W, kMk, kNA/KAR). The Interval Details will not contain community solar generation data on tet metered generation data.         Required: If there are in interval metered services on the account.       QTY-QD-1.368-KH         Must Use       QTY0       Sementify Qualifier       MitPA->PQ>2.0448-KH->51         Must Use       QTY01       Selement       Simmad       Simmad         QD       Quantity Qualifier       MitPa->       QI         QD       Quantity Qualifier       X       RI 1/5         Must Use       QTY02       380       Quantity       QI       X       R 1/15         Must Use       QTY03       S00       Quantity       Size QI       X       R 1/15         Must Use <td< th=""><th></th><th>Segment:</th><th>QTY</th><th>Quantity</th><th></th><th></th></td<>		Segment:	QTY	Quantity		
Leval: Usage: OptionalDetail OptionalMax Use: Purpose: Syntax Notes:11At lease or of QTY02 or QTY04 may be present. 22Only one of QTY02 or QTY04 may be present. 2311QTV04 is used when the quantity is non-numeric.Notes: Comments:1There will be one QTY loop for each interval for the meter with individual MEA segments for each type of consumption (i.e., kW, kWh, kVARH). The Interval Details will only contain the Consumption (i.e., kW, kWh, kVARH). The Interval Details will only contain the Consumption (i.e., kW, kWh, kVARH). The Interval Details will only contain the Consumption (i.e., kW, kWh, kVARH). The Interval Details will only contain the Consumption (i.e., kW, kWh, kVARH). The Interval Details will only contain the Consumption (i.e., kW, kWh, kVARH). The Interval Details will only contain the Consumption (i.e., kW, kWh, kVARH). The Interval Details will only contain the Consumption (i.e., kW, kWh, kVARH). The Interval Details will only contain the Consumption (i.e., kW, kWh, kVARH). The Interval Details will only contain the Consumption (i.e., kW, kWh, kVARH). The Interval Details will only contain the Consumption (i.e., kW, kWh, kVARH). The Interval Details will only contain the Consumption (i.e., kW, kWh, kVARH). The Interval Details will only contain the Consumption (i.e., kW, kWh, kWh, kWh, kWh, kWh, kWh, kWh,		Position:	-			
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.       1         Semantic Notes:       1       QTV04 is used when the quantity is non-numeric.         Semantic Notes:       Image: Comments:       There will be one QTY loop for each interval for the meter with individual MEA segments for each type of consumption (i.e., kW, kWh, kVARH). The Interval Details will only contain the Consumption (kWh. The Interval Details will not contain community solar generation data. Required if there are interval metered generation data. Required if there are interval metered services on the account.         QTV-QD1.368-KH       MEAPQC-1.368-KH51         Must Use       QTY01       673       Quantity Qualifier       M ID 2/2         Code specifying the type of quantity in QTY02 is Estimated       QD       QD       Quantity Delivered         Must Use       QTY02       380       Quantity of consumption delivered for service period.         Must Use       QTY03       CO01       Composite Unit of Measure       O       To identify a composite unit of measure (See Figures Appendis for examples of use)         Must Use       QT90       355       Unit or Basis for Measurement Code       M ID 2/2         Co		-	-	Optional		
Max Use Purpose Syntax Notes: I All east one of QTY02 or QTY04 is required. I Only one of QTY02 or QTY04 may be present. I Only one of QTY02 or QTY04 may be present. I Only one of QTY02 or QTY04 may be present. I Only one of QTY02 or QTY04 may be present.Semantic Notes: Comments: Notes:There will be one QTY loop for each interval for the meter with individual MEA segments for each type of consumption (i.e., KW, KWA, KVARH). The Interval Details will only contain the Consumption (i.e., KW, KWA, KVARH). The Interval Details will only contain the Consumption (i.e., KW, KWA, KVARH). The Interval Details will only contain the Consumption MWA. The Interval Details will not contain community solar generation data or net metered generation data. Required if there are interval metered generation data. Required if there are interval metered services on the account. QTY-QD-1.368-KHS1Must UseRef. Data Dess. QTY01Data Rame Quantity Qualifier Code specifying the type of quantity Lose when Quantity in QTY02 is Estimated Used when Quantity in QTY02 is Estimated Used when Quantity in QTY02 is Actual ReadingMust UseQTY02 QTY02380 Quantity Of consumption delivered for service period.Must UseQTY03C001Composite Unit of Measure O To identify a composite unit of measure (See Figures Appendix for examples of use)Must UseQT010355Unit or Basis for Hamesure (See Figures Appendix for examples of use)Must UseC0010355Unit or Basis for Hamesure (See Sec Figures Appendix for examples of use)Must UseC0010355Unit or Basis for Hamesure (Silvolt Amperes Reactive Hour Kil Kilvolt Ampe						
Purpose Syntax NotesTo specify quantity information 1 At least one of QTYQ or QTYQ4 may be present. 2 Only one of QTYQ2 or QTYQ4 may be present. 2 Only one of QTYQ2 or QTYQ4 may be present. 1 QTYU4 is used when the quantity is non-numeric.Semantic Notes: CommentsThere will be one QTY loop for each interval for the meter with individual MEA segments for each type of consumption (i.e., kW, kWh, kVARH). The Interval Details will not contain the Consumption kWh. The Interval Details will not contain community solar generation data or net metered generation data. Required if there are interval metered services on the account. QTY-QD-1.368-KH MEA-~PQ-2.0448-K1-~~51 MEA-~PQ-2.0448-K1-~~51AttributesMust UseRef. QTYO QTYO QTYOData Goal Quantity Quantity Delivered QDQuantity Delivered QDMust UseQTYQ QTYO QTYO QTYO Amatic Sequence Composite unit of measure (See Figures Appendix for examples of race)Must UseQTYQ3CO01Composite Unit of Measure Code specifying the Used when Quantity in QTYQ2 is Estimated QDMust UseQTYQ3CO01Composite Unit of Consumption delivered for service period. To identify a composite unit of measure (See Figures Appendix for examples of race)Must UseQTYQ3CO01S55Unit or Basis Figures Appendix for examples of race)Must UseKWKVARHKIKilovat Amperes Reactive Hour KIKIKilovat Amperes Reactive Hour KIKI			-			
Syntax Notes:       1       At least one of QTY02 or QTY04 is required.         2       Only one of QTY02 or QTY04 is used when the quantity is non-numeric.         Semantic Notes:       I       QTY04 is used when the quantity is non-numeric.         Notes:       There will be one QTY loop for each interval for the meter with individual MEA segments for each type of consumption (i.e., kW, kWh, kVARH). The Interval Details will only contain the Consumption (kM. The Interval Details will not contain community solar generation data or net metered generation data.         Required if there are interval metered services on the account.       QTY-QD-1.368-KH         QTY-QD-1.368-KH-war-S1       MEA-warPQ-2.0448-K1-war-S1         Must Use       QTY01       673         Quantity Quantity Qualifier       Data         Element       Scientity in QTY02 is Estimated         QD       Quantity Delivered         Used when Quantity in QTY02 is Actual Reading         Must Use       QTY02         QTY02       380         Quantity       Erresents quantity         Numeric value of quantity       X         Represents quantity       Consumption delivered for service period.         Must Use       QTY02       CO01       Congosite Unit of Measure       O         To identify a composite unit of measure (See Figures Appendix for examples of use)       In ID 2/2			-	6		
<ul> <li>2 Only one of QTY02 or QTY04 may be present.</li> <li>1 QTY04 is used when the quantity is non-numeric.</li> <li>There will be one QTY loop for each interval for the meter with individual MEA segments for each type of consumption (i.e., kW, kWh, kVARH). The Interval Details will not contain the Consumption KWh. The Interval Details will not contain the Consumption KWh. The Interval Details will not contain the Consumption KWh. The Interval Details will not contain the Consumption KWh. The Interval Details will not contain the Consumption KWh. The Interval Details will not contain the Consumption KWh. The Interval Details will not contain the Consumption KWh. The Interval Details will not contain the Consumption KWh. The Interval Details will not contain the Consumption KWh. The Interval Details will not contain the Consumption Adat or net metered generation data.</li> <li>Curry CDP -1.368-KH were services on the account.</li> <li>QTY-QD-1.368-KH were services on the account.</li> <li>QTY-QD-1.36</li></ul>	Synt					
Semantic Notes: Comments:       1       QTY04 is used when the quantity is non-numeric.         Notes:       There will be one QTY loop for each interval for the meter with individual MEA segments for each type of consumption (i.e., kW, kWh, kVARH). The Interval Details will not contain community solar generation data. Required if there are interval metered generation data. Required if there are interval metered services on the account. QTY-QD-1.368-KH MEAPQ-2.0448-KH51         Must Use       Ref. QES.       Data Element Element       Name Quantity Qualifier       Attributes M ID 2/2         Code specifying the type of quantity KA       Estimated       M       ID 2/2         QD       Quantity Qualifier       M       ID 2/2         Must Use       QTY02       380       Quantity       KA       R1/25         Must Use       QTY02       380       Quantity       KA       R1/25         Must Use       QTY03       C001       Composite Unit of Measure       O       O         Must Use       QTY03       C01       Composite Unit of measure (See Figures Appendix for examples of use)       D       O         Must Use       QTY03       C01       Composite Unit of Measure       O       O         Must Use       QTY03       C010       Code specifying the units in which a value is being expressed, or manner in which a value is being expressed, or manner in which a value is bein	Syn	lax moles.				
segments for each type of consumption (i.e., kW, kWA, kWARH). The Interval Details will not contain community solar generation data on et metered generation data. Required if there are interval metered services on the account. QTY-QD-1.368-KH MEAPQ-2.0448-K151 MEAPQ-2.0448-K151 MEAPQ-2.0448-K151 Mean-PQ-2.0488-KH Mean-PQ-2.0448-K1						
Ref. Des. Pes. (QTY01       Data Element 673       Name Quantity Qualifier Quantity Qualifier       Attributes M ID 2/2         Code specifying the type of quantity KA       Estimated         QD       Estimated         QD       Quantity Delivered Used when Quantity in QTY02 is Estimated         QD       Quantity Delivered         West Use       QTY02         Must Use       QTY03         C001       Quantity         Must Use       QTY03         C001       C001         C001       C001         Code specifying the unit of measure (See Figures Appendix for examples of use)         Must Use       C00101         Must Use       C00101         AD       See Coll if of Measure in the avalue is being expressed, or manner in which a measurement has been taken K1         K1       Kilovalt Amperes Reactive Hour         K1       Kilovalt Amperes Reactive Hour         K1       Kilovalt Amperes Reactive Hour         KVARH       Kilovalt Hour		Notes:	segments for each type of consumption (i.e., kW, kWh, kVARH). The Interval Deta will only contain the Consumption kWh. The Interval Details will not contain comm solar generation data or net metered generation data. Required if there are interval metered services on the account. QTY~QD~1.368~KH MEA~~PRQ~1.368~KH~~~51			
Ref. Des.Data Element QTY01Name Element 673Name Quantity QualifierAttributes MMust UseQTY01673Name Quantity QualifierAttributes MKAEstimated Used when Quantity in QTY02 is Estimated QDUsed when Quantity in QTY02 is Estimated Used when Quantity in QTY02 is Actual ReadingMust UseQTY02380QuantityVRepresents quantityConsumption delivered for service period.Must UseQTY03CO01Composite Unit of measure (See Figures Appendix for examples of use)Must UseC00101355Unit or Basis for Measure K1Code specifying the units in which a value is being expressed, or maner in which a measure take and a measure in the second of the second			MLA~			
Must UseQTY01673Quantity QualifierM ID 2/2Code specifying the type of quantity KAEstimated Used when Quantity in QTY02 is Estimated QDQuantity Delivered Used when Quantity in QTY02 is Actual ReadingMust UseQTY02380QuantityX R 1/15Must UseQTY03C001Composite Unit of Consumption delivered for service period.Must UseQTY03C001Composite Unit of Measure o to identify a composite unit of measure (See Figures Appendix for examples of use)Must UseC00101355Unit or Basis for Measurement Code which a measurement has been taken K1M ID 2/2K3Kilovolt Amperes Reactive Hour KVARHKWKM		Ref.	Data		······ ~ ·····························	
Must Use       QTY02       380       Quantity       KA       Estimated         QD       Quantity Delivered       Used when Quantity in QTY02 is Estimated         Must Use       QTY02       380       Quantity       Used when Quantity in QTY02 is Actual Reading         Must Use       QTY03       C001       Composite Unit of Measure       O         To identify a composite unit of measure (See Figures Appendix for examples of use)       O       To identify a composite unit of measure (See Figures Appendix for examples of use)         Must Use       C00101       355       Unit or Basis for Measurement Code       M ID 2/2         Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken       K1       Kilowatt Demand         K1       Kilowatt Demand       KW       KA       KA         KH       Kilowatt Hour       KI       KI			<u>Element</u>			
KA       Estimated         Used when Quantity in QTY02 is Estimated         QD       Quantity Delivered         Used when Quantity in QTY02 is Actual Reading         Must Use       QTY02         380       Quantity         Represents quantity of consumption delivered for service period.         Must Use       QTY03         C001       Composite Unit of Measure         To identify a composite unit of measure (See Figures Appendix for examples of use)         Must Use       C00101         355       Unit or Basis for Measurement Code       M ID 2/2         Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken       K1         K1       Kilovolt Amperes Reactive Hour         KVARH       KH       Kilowatt Hour	Must Use	QTY01	673	Quantity Qualifier	•	M ID 2/2
Must Use       QTY02       380       Quantity       Quantity       Delivered       Quantity       Quantity       Delivered       Quantity       Delivered       Delive				Code specifying the	e type of quantity	
QD       Quantity Delivered Used when Quantity in QTY02 is Actual Reading         Must Use       QTY02       380       Quantity       X R 1/15         Numeric value of quantity       Represents quantity       Represents quantity         Must Use       QTY03       C001       Composite Unit of Measure       O         Must Use       QTY03       C001       Composite Unit of Measure       O         Must Use       C00101       355       Unit or Basis for Measure       (See Figures Appendix for examples of use)         Must Use       C00101       355       Unit or Basis for Measurement Code       M ID 2/2         Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken       K1       Kilowatt Demand         K1       Kilovolt Amperes Reactive Hour       KVARH       KVARH				KA	Estimated	
Must Use       QTY02       380       Quantity       Used when Quantity in QTY02 is Actual Reading         Must Use       QTY03       C001       Represents quantity of consumption delivered for service period.         Must Use       QTY03       C001       Composite Unit of Measure of use)       O         Must Use       C00101       355       Unit or Basis for Measure of use)       O         Must Use       C00101       355       Unit or Basis for Measurement Code       M       ID 2/2         K1       Kilowatt Demand       K1       Kilowatt Demand       K1       Kilowatt Demand         K4       Kilovolt Amperes Reactive Hour       KVARH       KVARH       Kilowatt Hour       Kilowatt Hour					Used when Quantity in QTY02 is Estim	nated
Must Use       QTY02       380       Quantity       X       R 1/15         Numeric value of quantity       Represents quantity of consumption delivered for service period.       Represents quantity of consumption delivered for service period.         Must Use       QTY03       C001       Composite Unit of Measure       O         Must Use       C00101       355       Unit or Basis for Measurement Code       M       ID 2/2         Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken       K1       Kilowatt Demand         K1       Kilovolt Amperes Reactive Hour       KVARH       KVARH         KH       Kilowatt Hour       Kilowatt Hour       Kilowatt Hour				QD	Quantity Delivered	
Numeric value of quantity         Represents quantity of consumption delivered for service period.         Must Use       QTY03       C001         Must Use       C00101       355         Must Use       C00101       355         Unit or Basis for Measurement Code       M         Must Use       C00101         At the present of the set of the					Used when Quantity in QTY02 is Actua	al Reading
Must Use       QTY03       C001       Represents quantity of consumption delivered for service period.         Must Use       C00101       355       Composite Unit of Measure (See Figures Appendix for examples of use)         Must Use       C00101       355       Unit or Basis for Measurement Code       M ID 2/2         Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken       K1       Kilowatt Demand         K3       Kilovolt Amperes Reactive Hour       KVARH       Kilowatt Hour	Must Use	QTY02	380	Quantity		X R 1/15
Must Use       QTY03       C001       Represents quantity of consumption delivered for service period.         Must Use       C00101       355       Composite Unit of Measure (See Figures Appendix for examples of use)         Must Use       C00101       355       Unit or Basis for Measurement Code       M ID 2/2         Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken       K1       Kilowatt Demand         K3       Kilovolt Amperes Reactive Hour       KVARH       Kilowatt Hour				Numeric value of q	uantity	
Must Use       QTY03       C001       Composite Unit of Measure       O         To identify a composite unit of measure (See Figures Appendix for examples of use)       To identify a composite unit of measure (See Figures Appendix for examples of use)         Must Use       C00101       355       Unit or Basis for Measurement Code       M ID 2/2         Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken       K1       Kilowatt Demand         K3       Kilovolt Amperes Reactive Hour         KH       Kilowatt Hour				-	-	riod.
Must Use       C00101       355       To identify a composite unit of measure (See Figures Appendix for examples of use)         Must Use       C00101       355       Unit or Basis for Measurement Code       M ID 2/2         Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken       K1       Kilowatt Demand         K3       K3       Kilovolt Amperes Reactive Hour         KVARH       Kilowatt Hour	Must Use	OTY03	C001			
Must Use       C00101       355       Unit or Basis for Measurement Code       M ID 2/2         Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken       K1       Kilowatt Demand         K1       Kilowatt Demand       KW         K3       Kilovolt Amperes Reactive Hour         KVARH       KH       Kilowatt Hour		C		-		dix for examples
Must Use       C00101       355       Unit or Basis for Measurement Code       M ID 2/2         Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken       K1       Kilowatt Demand         K1       Kilowatt Demand       KW         K3       Kilovolt Amperes Reactive Hour         KVARH       Kilowatt Hour					····· ································	F
which a measurement has been taken K1 Kilowatt Demand KW K3 Kilovolt Amperes Reactive Hour KVARH KH Kilowatt Hour	Must Use	C00101	355		Aeasurement Code	M ID 2/2
K1     Kilowatt Demand       KW       K3     Kilovolt Amperes Reactive Hour       KVARH       KH     Kilowatt Hour				Code specifying the	e units in which a value is being expressed	d, or manner in
KW       K3     Kilovolt Amperes Reactive Hour       KVARH       KH     Kilowatt Hour						
K3Kilovolt Amperes Reactive HourKVARHKHKilowatt Hour				K1		
KVARH KH Kilowatt Hour					KW	
KH Kilowatt Hour				K3	Kilovolt Amperes Reactive Hour	
					KVARH	
KWH				KH	Kilowatt Hour	
					KWH	
TD Therms				TD	Therms	

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 specifi</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 MEA</li> <li>1 Whe</li> <li>any mega</li> <li>Required</li> <li>QTY~QI</li> <li>MEA~</li> </ul>	hts (See Figures A east one of MEA03 EA05 is present, th EA06 is present, th EA07 is present, th v one of MEA08 or A04 defines the unit on citing dimensiona measurement where tive (-) value and M	ements or counts, including dimensions, tol- ppendix for example of use of C001) MEA05 MEA06 or MEA08 is required. en MEA04 is required. en MEA04 is required. en at least one of MEA03 MEA05 or MEA MEA03 may be present. t of measure for MEA03, MEA05, and ME al tolerances, any measurement requiring a e a positive (+) value cannot be assumed, us IEA06 as the positive (+) value.	06 is A06. sign (	required. (+ or -), or
			Data Eler	ment Summary		
	Ref.	Data Flore and	Nomo		A 44-	- <b>1</b>
Must Use	<u>Des.</u> MEA02	Element 738	<u>Name</u> Measurement Qu	ıalifier	<u>Atti</u> 0	<u>ributes</u> ID 1/3
			-	a specific product or process characteristic	to wh	ich a
Must Use	MEA03	739	Measurement Va	lue	X	R 1/20
			The value of the n	neasurement		
	MEA04	C001	Composite Unit of	of Measure	Х	
				posite unit of measure (See Figures Appen	dix fo	or examples
Must Use	C00101	355	of use) Unit or Basis for	Measurement Code	М	ID 2/2
				he units in which a value is being expressed	l, or r	nanner in
			which a measuren	nent has been taken		
			K1	Kilowatt Demand		
			W2	KW		
			K3	Kilovolt Amperes Reactive Hour KVARH		
			КН	KVAKH Kilowatt Hour		
			KII	KWH		
			TD	Therms		
Must Use	MEA07	935	Measurement Sig		0	ID 2/2
			· · · · ·	chmark, qualify or further define a measure		
			41	Off Peak		
			42	On Peak		
			51	Total		

Syn <sup>.</sup> Semar	Segment: Position: Loop: Level: Usage: Max Use: Purpose: tax Notes: attic Notes: omments:	<ul> <li>210</li> <li>QTY</li> <li>Detail</li> <li>Optional</li> <li>10</li> <li>To specifi</li> <li>1 At let</li> <li>2 If D'</li> <li>3 If eit</li> </ul>	Optional fy pertinent dates an east one of DTM02 1 TM04 is present, the ther DTM05 or DTM	DTM03 or DTM05 is required. en DTM03 is required. M06 is present, then the other is required.		
	Notes:		and time of the peri abeled with the da	iod for which the quantity is provided. Each and time.	ch inte	erval must be
		Required	l 32~20131215~1500			
		D1101~30	52~20131213~1300			
	Ref.	Data	Data Elen	nent Summary		
	Des.	Element	<u>Name</u>		Attr	<u>ributes</u>
Must Use	DTM01	374	Date/Time Qualif	ïer	Μ	ID 3/3
			Code specifying ty	ppe 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		Х	DT 8/8
			Date expressed as	CCYYMMDD		
Must Use	DTM03	337	Time		X	TM 4/8
			HHMMSSD, or H 59), $S = integer sectors$	24-hour clock time as follows: HHMM, o HMMSSDD, where H = hours (00-23), M conds (00-59) and DD = decimal seconds; bllows: D = tenths (0-9) and DD = hundred	= min decin	nutes (00- nal seconds

	Segment:	РТГ	Product Transfor	and Resale Detail (Scheduling Deter	rminont	
	Position:	010		and Resale Detail (Scheduning Deter	1 1111111111	3)
	Loop:	PTD	Mandatory			
	Loop: Level:	Detail	Wandatory			
	Usage:	Mandato	rv			
	Max Use:	1	5			
	Purpose:			nformation relating to the transfer/resa	ale of a p	product and
Synt	tax Notes:	<ul> <li>provide identifying data</li> <li>1 If either PTD02 or PTD03 is present, then the other is required.</li> </ul>				
Somo	tic Notes:	2 If eit	ther PTD04 or PTD0	5 is present, then the other is required.		
	omments:					
C	Notes:	This PTI	) I oon will be used to	o provide scheduling determinants, suc	ch as the	canacity
	Trotes.		n, transmission oblig		en as the	capacity
		Required	-	,		
		PTD~FG				
			~~~OZ~EL			
		_	Data Elem	ent Summary		
	Ref.	Data	NT			•1
	Des.	Element	<u>Name</u>			
Marget Tigo				Free Codo		ributes
Must Use	PTD01	521	<b>Product</b> Transfer	••		ID 2/2
Must Use			<b>Product Transfer</b> Code identifying the	e type of product transfer		
Must Use			<b>Product</b> Transfer	e type of product transfer Flowing Gas Information	Μ	ID 2/2
Must Use			<b>Product Transfer</b> Code identifying the	e type of product transfer Flowing Gas Information Scheduling Determinants. This loop	Μ	ID 2/2
Must Use	PTD01	521	<b>Product Transfer</b> ' Code identifying the FG	e type of product transfer Flowing Gas Information Scheduling Determinants. This loop information required.	M will pro	ID 2/2
Must Use			Product Transfer ' Code identifying the FG Reference Identifie	e type of product transfer Flowing Gas Information Scheduling Determinants. This loop information required. eation Qualifier	Μ	ID 2/2
Must Use	PTD01	521	Product Transfer ' Code identifying the FG Reference Identifie Code qualifying the	e type of product transfer Flowing Gas Information Scheduling Determinants. This loop information required.	M will pro	ID 2/2
Must Use	PTD01	521	Product Transfer ' Code identifying the FG Reference Identified Code qualifying the Ameren: Required	e type of product transfer Flowing Gas Information Scheduling Determinants. This loop information required. eation Qualifier	M will pro	ID 2/2
Must Use	PTD01	521	Product Transfer ' Code identifying the FG Reference Identifie Code qualifying the Ameren: Required ComEd: Not Used	e type of product transfer Flowing Gas Information Scheduling Determinants. This loop information required. Cation Qualifier Reference Identification	M will pro	ID 2/2
Must Use	PTD01	521	Product Transfer ' Code identifying the FG Reference Identified Code qualifying the Ameren: Required	e type of product transfer Flowing Gas Information Scheduling Determinants. This loop information required. ceation Qualifier Reference Identification Product Number	M will pro	ID 2/2
Must Use	PTD01 PTD04	521	Product Transfer ' Code identifying the FG Reference Identifie Code qualifying the Ameren: Required ComEd: Not Used OZ	e type of product transfer Flowing Gas Information Scheduling Determinants. This loop information required. cation Qualifier Reference Identification Product Number Commodity	M will pro X	ID 2/2 wide ID 2/3
Must Use	PTD01	521	<ul> <li>Product Transfer ' Code identifying the FG</li> <li>Reference Identifie Code qualifying the Ameren: Required ComEd: Not Used OZ</li> <li>Reference Identifie</li> </ul>	e type of product transfer Flowing Gas Information Scheduling Determinants. This loop information required. Cation Qualifier Reference Identification Product Number Commodity Cation	M will pro X	ID 2/2 wide ID 2/3 AN 1/30
Must Use	PTD01 PTD04	521	<ul> <li>Product Transfer ' Code identifying the FG</li> <li>Reference Identifie Code qualifying the Ameren: Required ComEd: Not Used OZ</li> <li>Reference Identifie Reference information</li> </ul>	e type of product transfer Flowing Gas Information Scheduling Determinants. This loop information required. cation Qualifier Reference Identification Product Number Commodity cation fon as defined for a particular Transact	M will pro X	ID 2/2 wide ID 2/3 AN 1/30
Must Use	PTD01 PTD04	521	<ul> <li>Product Transfer ' Code identifying the FG</li> <li>Reference Identifie Code qualifying the Ameren: Required ComEd: Not Used OZ</li> <li>Reference Identifie Reference informati specified by the Reference</li> </ul>	e type of product transfer Flowing Gas Information Scheduling Determinants. This loop information required. Cation Qualifier Reference Identification Product Number Commodity Cation	M will pro X	ID 2/2 wide ID 2/3 AN 1/30
Must Use	PTD01 PTD04	521	<ul> <li>Product Transfer ' Code identifying the FG</li> <li>Reference Identifie Code qualifying the Ameren: Required ComEd: Not Used OZ</li> <li>Reference Identifie Reference informati specified by the Ref Ameren: Required</li> </ul>	e type of product transfer Flowing Gas Information Scheduling Determinants. This loop information required. cation Qualifier Reference Identification Product Number Commodity cation fon as defined for a particular Transact	M will pro X	ID 2/2 wide ID 2/3 AN 1/30
Must Use	PTD01 PTD04	521	<ul> <li>Product Transfer ' Code identifying the FG</li> <li>Reference Identified Code qualifying the Ameren: Required ComEd: Not Used OZ</li> <li>Reference Identified Reference informati specified by the Ref Ameren: Required ComEd: Not Used</li> </ul>	e type of product transfer Flowing Gas Information Scheduling Determinants. This loop information required. cation Qualifier Reference Identification Product Number Commodity cation fon as defined for a particular Transact cerence Identification Qualifier	M will pro X	ID 2/2 wide ID 2/3 AN 1/30
Must Use	PTD01 PTD04	521	<ul> <li>Product Transfer ' Code identifying the FG</li> <li>Reference Identifie Code qualifying the Ameren: Required ComEd: Not Used OZ</li> <li>Reference Identifie Reference informati specified by the Ref Ameren: Required</li> </ul>	e type of product transfer Flowing Gas Information Scheduling Determinants. This loop information required. cation Qualifier Reference Identification Product Number Commodity cation fon as defined for a particular Transact	M will pro X	ID 2/2 wide ID 2/3 AN 1/30

Synt Seman	Segment: Position: Loop: Level: Usage: Max Use: Purpose: ax Notes: tic Notes: puments:	030 PTD Detail Optional 20 To specif 1 At le 2 If eit 3 If eit 1 REF	Reference Identification (Bill Cycle) Mandatory Y identifying information east 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. 04 contains data relating to the value cited in REF02.			
	Notes:	Required REF~BF~12				
		KLI <sup>-</sup> DI	-12			
	D f		Data Element Summary			
	Ref. Des.	Data Element	Name	Δttı	ributes	
Must Use	<u>REF01</u>	<u>128</u>	Reference Identification Qualifier	M	ID 2/3	
			Code qualifying the Reference Identification			
			BF Billing Center Identification			
			Bill Cycle			
Must Use	REF02	127	Reference Identification	Х	AN 1/30	
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier Bill Cycle	1 Set o	or as	

Segment: Position: Loop: Level: Usage: Max Use: Purpose: Syntax Notes: Semantic Notes: Comments:	<ul> <li>QTY Quantity (PLC - Peak Load Contribution)</li> <li>QTY Optional</li> <li>Detail</li> <li>Optional</li> <li>To specify quantity information</li> <li>At least one of QTY02 or QTY04 is required.</li> <li>Only one of QTY02 or QTY04 may be present.</li> <li>QTY04 is used when the quantity is non-numeric.</li> </ul>
Notes:	<ul> <li>Ameren: Not Used ComEd: Required</li> <li>Zero values may be sent if the utility is, in fact, stating that there is no contribution for this customer's account.</li> <li>Negative values may be sent when the PLC is negative.</li> <li>The QTY/DTM loop may be sent twice depending on the time of year that Historical Usage is being provided. One iteration will show the current PLC (capacity contribution) and a second iteration will show the PLC that will be effective in the period defined in the DTM segment. Currently ComEd changes the PLC effective June 1st. Once ComEd is aware of what the next effective PLC will be (typically in January) they will begin providing it on transactions.</li> <li>For example, in February 2023 you may receive two loops: QTY~KC~.1999~K1 DTM~007~~~RD8~20220601-20230531 QTY~KC~-0.4~K1 DTM~007~~~RD8~20230601-20240531</li> <li>Whereas in September 2023 you would only receive one loop because the following year's PLC is undetermined: QTY~KC~3.1054~K1 DTM~007~~~RD8~20230601-20240531</li> </ul>

### **Data Element Summary**

	Ref.	Data	Dutu Litin	ent Summary		
Must Use	<u>Des.</u> QTY01	Element 673	<u>Name</u> Quantity Qualifier		<u>Attı</u> M	<u>ributes</u> ID 2/2
	L.		Code specifying the			
			KC	Net Quantity Decrease		
				Peak load contributions provided to PJM Capacity calculation (coincident with P.		
Must Use	QTY02	380	Quantity		_	R 1/15
			Numeric value of qu	lantity		
			Peak Load Contribu	tion (PLC)		
Must Use	QTY03	C001	Composite Unit of	Measure	0	
			To identify a compo of use)	osite unit of measure (See Figures Appen	dix fo	or examples
Must Use	C00101	355	Unit or Basis for M	leasurement Code	Μ	ID 2/2
			Code specifying the which a measuremen K1	units in which a value is being expressed nt has been taken Kilowatt Demand	l, or r	nanner in
				KW		

	Segment:	DTN	<b>I</b> Date/Time Refe	rence (PLC Effective Date)		
	Position:	210				
	Loop:	QTY	Optional			
	Level:	Detail				
	Usage:	Optional				
	Max Use:	10				
	Purpose:	To specif	fy pertinent dates and	l times		
Syn	tax Notes:			DTM03 or DTM05 is required.		
			<b>.</b>	n DTM03 is required.		
	3 If either DTM05 or DTM06 is present, then the other is required.					
	ntic Notes:					
C	omments:	_				
	Notes:	-	if PLC is sent			
	Capacity Contribution is for June 1 - the following May 31. Therefore, this date range is			date range is		
	to reflect when the value shown in the QTY02 is in effect.					
		DTM~00	07~~~RD8~201206	01-20130531		
		-	Data Elem	ent Summary		
	Ref.	Data			• • •	
	Des.	Element	Name			ributes
Must Use	DTM01	374	Date/Time Qualifi		Μ	ID 3/3
			Code specifying typ	no of data on time, on both data and time		
				pe of date or time, or both date and time		
			007	Effective		
			007	-		
Must Use	DTM05	1250	007 Date Time Period	Effective PLC Effective Date	X	ID 2/3
Must Use	DTM05	1250	Date Time Period	Effective PLC Effective Date		
Must Use	DTM05	1250	Date Time Period	Effective PLC Effective Date Format Qualifier	e forr	nat
Must Use Must Use	DTM05 DTM06	1250 1251	<b>Date Time Period</b> Code indicating the	Effective PLC Effective Date Format Qualifier date format, time format, or date and tim Range of Dates Expressed in Format Co	e forr	nat
			Date Time Period Code indicating the RD8 Date Time Period	Effective PLC Effective Date Format Qualifier e date format, time format, or date and time Range of Dates Expressed in Format Co CCYYMMDD	e forr CYYN X	nat MMDD- AN 1/35
			Date Time Period Code indicating the RD8 Date Time Period	Effective PLC Effective Date Format Qualifier date format, time format, or date and tim Range of Dates Expressed in Format Co	e forr CYYN X	nat MMDD- AN 1/35

## OTY Quantity (Transmission Contribution-NSPL)

Segment: Position: Loop: Level: Usage: Max Use: Purpose: Syntax Notes:

QTY Optional
Detail
Optional
1
To specify quantity information
1 At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
1 QTY04 is used when the quantity is non-numeric.

Semantic Notes: Comments: Notes:

Electric: Required Gas: Not Used

Zero values may be sent if the utility is, in fact, stating that there is no contribution for this customer's account.

Negative values may be sent when the NSPL is negative.

The QTY/DTM loop may be sent up to eight times if the Utility is providing both the current NSPLs and the NSPLs that will be effective for a subsequent period.

For Ameren, you may receive up to a total of eight loops per service point during the time of the year (roughly January through May) when four current NSPLs and four pending NSPLs are available. The example immediately below shows four current NSPLs and four pending NSPLs:

QTY~KZ~450~K1 DTM~007~~~RD8~20230601-20230831 OTY~KZ~410~K1 DTM~007~~~RD8~20230901-20231130 QTY~KZ~380~K1 DTM~007~~~RD8~20231201-20240229 OTY~KZ~490~K1 DTM~007~~~RD8~20240301-20240531 QTY~KZ~473~K1 DTM~007~~~RD8~20240601-20240831 QTY~KZ~415~K1 DTM~007~~~RD8~20240901-20241130 QTY~KZ~372~K1 DTM~007~~~RD8~20241201-20250228 OTY~KZ~502~K1 DTM~007~~~RD8~20250301-20250531

For ComEd, you may receive up to a total of two loops per transaction (i.e., one current NSPL and one pending NSPL). For example, you may receive either two loops:

QTY~KZ~2.9999~K1 DTM~007~~~~RD8~20220101-20221231 QTY~KZ~-4.5288~K1 DTM~007~~~~RD8~20230101-20231231

Or just one:

QTY~KZ~0.1999~K1 DTM~007~~~~RD8~20230101-20231231

#### **Data Element Summary**

Ref.	Data	
Des.	Element	Name

#### Attributes

Must Use	QTY01	673	Quantity Qualifier		Μ	ID 2/2
			Code specifying the	type of quantity		
			KZ	Corrective Action Requests-Written		
				Transmission Contribution: Customer's	contr	ibution to
				the Transmission System's annual peak known as Network Service Peak Load		
Must Use	QTY02	380	Quantity		Х	R 1/15
			Numeric value of qu	antity		
			Transmission Contra	ibution		
Must Use	QTY03	C001	Composite Unit of	Measure	0	
			To identify a compo of use)	osite unit of measure (See Figures Apper	ndix fo	or examples
Must Use	C00101	355	Unit or Basis for M	Ieasurement Code	Μ	ID 2/2
			Code specifying the which a measureme K1	Kilowatt Demand	d, or n	nanner in
				KW		

	Segment: Position:	<b>DTN</b> 210	Date/Time Refe	rence (NSPL Effective Date)		
	Loop:	QTY	Optional			
	Level:	Detail	optional			
	Usage:	Optional				
	Max Use:	10				
	<b>Purpose:</b>	To specif	fy pertinent dates and times			
Synt	tax Notes:		least one of DTM02 DTM03 or DTM05 is required.			
			DTM04 is present, then DTM03 is required.			
G		3 If either DTM05 or DTM06 is present, then the other is required.				
	tic Notes:					
C	omments: Notes:	Flootrio	Dequired			
	notes:		Electric: Required Gas: Not Used			
			)7~~~RD8~201206(	01-20130531		
				201201201		
			Data Elem	ent Summary		
	D.£	D-4-				
	Ref.	Data Element	Nome		A ++-	
Must Use	Des.	Element	<u>Name</u> Date/Time Qualifi	<b>DP</b>		ributes ID 3/3
Must Use			Date/Time Qualifie		<u>Attı</u> M	ributes ID 3/3
Must Use	Des.	Element	Date/Time Qualifie Code specifying typ	be of date or time, or both date and time		
Must Use	Des.	Element	Date/Time Qualifie	e of date or time, or both date and time Effective		
	<u>Des.</u> DTM01	Element 374	<b>Date/Time Qualifi</b> Code specifying typ 007	be of date or time, or both date and time Effective NSPL Effective Date	Μ	ID 3/3
Must Use Must Use	Des.	Element	Date/Time Qualifie Code specifying typ	be of date or time, or both date and time Effective NSPL Effective Date		
	<u>Des.</u> DTM01	Element 374	<ul> <li>Date/Time Qualifie</li> <li>Code specifying typ</li> <li>007</li> <li>Date Time Period 2</li> </ul>	be of date or time, or both date and time Effective NSPL Effective Date	M	ID 3/3 ID 2/3
	<u>Des.</u> DTM01	Element 374	<ul> <li>Date/Time Qualifie</li> <li>Code specifying typ</li> <li>007</li> <li>Date Time Period 2</li> </ul>	e of date or time, or both date and time Effective NSPL Effective Date Format Qualifier	M X e form	ID 3/3 ID 2/3 nat
	<u>Des.</u> DTM01	Element 374	Date/Time Qualifie         Code specifying type         007         Date Time Period         Code indicating the	be of date or time, or both date and time Effective NSPL Effective Date Format Qualifier date format, time format, or date and tim Range of Dates Expressed in Format CO	M X e form	ID 3/3 ID 2/3 nat
Must Use	Des. DTM01	Element 374 1250	<ul> <li>Date/Time Qualifie</li> <li>Code specifying typ 007</li> <li>Date Time Period 2</li> <li>Code indicating the RD8</li> <li>Date Time Period</li> </ul>	be of date or time, or both date and time Effective NSPL Effective Date Format Qualifier date format, time format, or date and tim Range of Dates Expressed in Format CO	M X e forr CYYN X	ID 3/3 ID 2/3 mat MMDD- AN 1/35
Must Use	Des. DTM01	Element 374 1250	<ul> <li>Date/Time Qualifie</li> <li>Code specifying typ 007</li> <li>Date Time Period 2</li> <li>Code indicating the RD8</li> <li>Date Time Period</li> </ul>	be of date or time, or both date and time Effective NSPL Effective Date Format Qualifier date format, time format, or date and tim Range of Dates Expressed in Format CO CCYYMMDD	M X e forr CYYN X	ID 3/3 ID 2/3 mat MMDD- AN 1/35

Synt	Segment: Position: Loop: Level: Usage: Max Use: Purpose: tax Notes: ttic Notes: omments: Notes:	110 QTY Detail Optional 1 To specif 1 At le 2 Only 1 QTY Electric: Gas: Opt	Quantity (Maximum Daily Contract Quantity (MDCQ) Optional fy quantity information east one of QTY02 or QTY04 is required. one of QTY02 or QTY04 may be present. 204 is used when the quantity is non-numeric. Not Used ional X~60000	)	
			Data Element Summary		
	Ref.	Data	N	• • •	•••
Must Use	<u>Des.</u> QTY01	Element 673	<u>Name</u> Quantity Qualifier		<u>ributes</u> ID 2/2
Widst Obt	Q1101	010	Code specifying the type of quantity	1.1	
			MX Maximum Number of Employees		
			Maximum Daily Contract Quantity (MI	DCO)	
Must Use	QTY02	380	Quantity	X	R 1/15
			Numeric value of quantity		
			MDCQ		
	QTY03	C001	Composite Unit of Measure	0	
			To identify a composite unit of measure (See Figures Appen	ıdix fo	or examples
			of use)		_
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 TD Therms	1, or n	nanner in

Synt	Segment: Position: Loop: Level: Usage: Max Use: Purpose: tax Notes: tax Notes: omments: Notes:	110 QTY Detail Optional 1 To specin 1 At le 2 Only 1 QTY Electric: Gas: Opt	Quantity (Maximum Allowable Operating Pressure (M. Optional fy quantity information east one of QTY02 or QTY04 is required. y one of QTY02 or QTY04 may be present. 204 is used when the quantity is non-numeric. Not Used ional O~61~64	AOP	))
			Data Element Summary		
	Ref.	Data			
	Des.	Element	Name		ributes
Must Use	QTY01	673	Quantity Qualifier	Μ	ID 2/2
			Code specifying the type of quantity		
			MO Minimum Order Package Level		
			Maximum Allowable Operating Pressur		
Must Use	QTY02	380	Quantity	Х	R 1/15
			Numeric value of quantity		
			MAOP		
	QTY03	C001	Composite Unit of Measure	0	
			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 expressedwhich a measurement has been taken64Pounds Per Square Inch Gauge	l, or r	nanner in

r	Segment: Position: Loop: Level: Usage: Max Use: Purpose:	030 Summary Mandato 1		ansmitted
Semant	Syntax Notes:       segments (including the beginning (ST) and ending (SE) segments)         Syntax Notes:       Semantic Notes:         Comments:       1         Notes:       SE is the last segment of each transaction set.         Required         SE~23~00000001			
	Ref.	Data	Data Element Summary	
	Des.	<u>Element</u>	Name	Attributes
Must Use	SE01	96	Number of Included Segments	M N0 1/10
Must Use	SE02	329	Total number of segments included in a transaction set includ segments <b>Transaction Set Control Number</b> Identifying control number that must be unique within the tran functional group assigned by the originator for a transaction s	M AN 4/9 nsaction set

ComEd Mass Market - Electric	ComEd Non-Mass Market - Electric
ST*867*00001	ST*867*00001
BPT*52*86720180508064228430000*20180508*DD	BPT*52*86720180509060827059999*20180509*DD
N1*8S*COMMONWEALTH EDISON CO*1*006929509	N1*8S*COMMONWEALTH EDISON CO*1*006929509
N1*SJ*SUPPLIER NAME*1*111111111	N1*SJ*SUPPLIER NAME*9*111111111AAAA
N1*8R*CUSTOMER NAME	N1*8R*CUSTOMER NAME
REF*12*1234567890*GROUPA	REF*12*1234567890*GROUPC
PTD*SU	PTD*SU
REF*NH*R70*R70	REF*NH*R74*R74
REF*LO*23	REF*LO*29
REF*PTC**GROUPA	REF*PTC**GROUPC
QTY*QD*633*KH	QTY*QD*36306*KH
MEA**PRQ*633*KH***51	MEA**PRQ*36306*KH***51
DTM*150*20160426	MEA**PRQ*78.62*K1***42
DTM*151*20160525	MEA**PRQ*88.99*K1***41
QTY*QD*818*KH	DTM*150*20160415
MEA**PRQ*818*KH***51	DTM*151*20160517
DTM*150*20160525	QTY*QD*38260*KH
DTM*151*20160624	MEA**PRQ*38260*KH***51
eliminated 21 periods	MEA**PRQ*89.86*K1***42
QTY*QD*293*KH	MEA**PRQ*100.22*K1***41
MEA**PRQ*293*KH***51	DTM*150*20160517
DTM*150*20180322	DTM*151*20160616
DTM*151*20180420	eliminated 21 periods
PTD*FG	QTY*QD*37445*KH
REF*BF*17	MEA**PRQ*37445*KH***51
QTY*KC*2.5477*K1	MEA**PRQ*84.82*K1***42
DTM*007****RD8*20170601-20180531	MEA**PRQ*96.34*K1***41
QTY*KZ*2.2166*K1	DTM*150*20180315
DTM*007****RD8*20180101-20181231	DTM*151*20180413
SE*113*00001	PTD*FG
	REF*BF*12
	QTY*KC*100.7815*K1
	DTM*007****RD8*20170601-20180531
	QTY*KZ*100.2505*K1
	DTM*007****RD8*20180101-20181231
	SE*161*00001

Ameren Mass Market - Electric	Ameren Non-Mass Market - Electric
ST*867*0012	ST*867*0001
BPT*52*1111122222201805083001*20180508*DD	BPT*52*1048105002201310020002*20131002*DD
N1*8S*AMEREN ILLINOIS*1*006936017	N1*8S*AMEREN ILLINOIS*1*006936017
N1*SJ*Supplier Name*1*111111111	N1*SJ*Supplier*1*123456789
N1*8R*CUSTOMER NAME	N1*8R*CUSTOMER NAME
REF*12*1111122222*GROUPA	REF*11*1700001
REF*LU*888888888	REF*12*1048104997
REF*SPL*RATE ZONE III	REF*LU*10584061
PTD*SU***OZ*EL	REF*SPL*RATE ZONE III
REF*NH*DS1*DS-1 Residential Delivery Serv	PTD*SU***OZ*EL
REF*LO*RESDLL-IP	REF*NH* DS2*DS - Small General Service (DS
REF*KX*AMI	REF*LO*DS2HH-
REF*AN*N	REF*KX*NOTAMI
QTY*QD*402*KH	REF*AN*N
MEA*AA*PRQ*402*KH***51	QTY*QD*5400*KH
DTM*150*20180326	MEA*AA*PRQ*5400*KH***51
DTM*151*20180425	DTM*150*20130630
QTY*QD*513*KH	DTM*151*20130731
MEA*AA*PRQ*513*KH***51	QTY*QD*7220*KH
DTM*150*20180225	MEA*AA*PRQ*7220*KH***51
DTM*151*20180326	DTM*150*20130531
eliminated 21 periods	DTM*151*20130630
QTY*QD*211*KH	eliminated 21 intervals
MEA*AA*PRQ*211*KH***51	
DTM*150*20160426	QTY*QD*4857*KH
DTM*151*20160525	MEA*AA*PRQ*4857*KH***51
PTD*FG***OZ*EL	DTM*150*20110930
REF*BF*01	DTM*151*20111031
QTY*KZ*1.943*K1	PTD*FG***OZ*EL
DTM*007****RD8*20170601-20180531	REF*BF*17
SE*114*0012	QTY*KZ*23.537*K1
	DTM*007****RD8*20130601-20140531
	SE*192*0001

Ameren Mass Market - Gas	Ameren Non-Mass Market - Gas
	ST*867*0001
	BPT*52*1048105002201310020002*20131002*DD
	N1*8S*AMEREN ILLINOIS*1*006936017
	N1*SJ*Supplier*1*123456789
	N1*8R*CUSTOMER NAME
	REF*11*1700001
	REF*12*1048104997
	REF*LU*10584061
	REF*SPL*RATE ZONE III
	PTD*SU***OZ*GAS
	REF*NH*GDS*GDS-4 Large Gen Gas
	QTY*QD*19400*TD
	MEA*AA*PRQ*19400*TD***51
	DTM*150*20130630
	DTM*151*20130731
	QTY*QD*17220*TD
	MEA*AA*PRQ*17220*TD***51
	DTM*150*20130531
	DTM*151*20130630
	eliminated 21 intervals
	QTY*QD*26840*TD
	MEA*AA*PRQ*26840*TD***51
	DTM*150*20110930
	DTM*151*20111031
	PTD*FG***OZ*GAS
	REF*BF*01
	QTY*MX*1356
	QTY*MO*61
	SE*191*0001

Example 2 – Historical Interval Usage (HIU)

Example 2 – Historical Interval Usage (HI Ameren - Electric	Ameren - Gas
	Ameren - Gas
ST*867*0001	
BPT*52*9730009914201309030999*20130903*C1	
N1*8S*AMEREN ILLINOIS*1*006936017	
N1*SJ*Supplier*1*123456789	
N1*8R*CUSTOMER NAME	
REF*11*133650	
REF*12*9730009999*NONPOR	
REF*LU*91674999	
REF*SPL*RATE ZONE I	
PTD*SU	
REF*NH*DS4*DS - Lg General Svc (DS-4) 100	
REF*LO*IDR	
REF*AN*N	
REF*KX*NOTAMI	
QTY*QD*380380*KH	
MEA*AA*PRQ*380380*KH***51	
DTM*150*20130726	
DTM*151*20130826	
QTY*QD*397373*KH	
MEA*AA*PRQ*397373*KH***51	
DTM*150*20130626	
DTM*151*20130726	
skipped 21 months	
QTY*QD*370444*KH	
MEA*AA*PRQ*370444*KH***51	
DTM*150*20110825	
DTM*151*20110926	
PTD*BQ	
DTM*150*20130726	
DTM*151*20130826	
QTY*QD*23.1075*KH	
MEA**PRQ*23.1075*KH***51	
MEA**PRQ*24.03*K1***51	
DTM*582*20130727*0100	
QTY*QD*22.7925*KH	
MEA**PRQ*22.7925*KH***51	
MEA**PRQ*22.86*K1***51	
DTM*582*20130727*0200	
skipped intervals until the end of the day	
QTY*QD*23.4*KH	
MEA**PRQ*23.4*KH***51	
MEA**PRQ*24.03*K1***51	
DTM*582*20130727*2359	
QTY*QD*22.5*KH	
MEA**PRQ*22.5*KH***51	
MEA**PRQ*24.03*K1***51	
DTM*582*20130728*0100	
skipped intervals until the end of the 2 years	
QTY*QD*24.3*KH	
MEA**PRQ*24.3*KH***51	
MEA**PRQ*25.2*K1***51	
DTM*582*20110926*2359	
PTD*FG	
REF*BF*02	
QTY*KZ*1386.293*K1	
DTM*007****RD8*20130601-20140531	
SE*70461*0001	

# Example 3 – Historical Interval Usage with Net Metering & Community Solar - Ameren

PTD\*SU\*\*\*OZ\*EL REF\*NH\*DS1\*DS-1 Residential Delivery Serv **REF\*LO\*RESDLH-CIPS** REF\*KX\*AMI REF\*AN\*Y REF\*KY\*NM-BI ← Consumption QTY\*QD\*500\*KH MEA\*AA\*PRQ\*500\*KH\*\*\*51 DTM\*150\*20180729 DTM\*151\*20180827 ← On-Site Generation OTY\*87\*300\*KH MEA\*AF\*PRQ\*300\*KH\*\*\*51 DTM\*150\*20180729 DTM\*151\*20180827 ← Community Solar not present because customer quit program ← Starting Bank - Period 3 - Still shows even though 0 QTY\*QH\*0\*KH because there is on-site generation on the account MEA\*AF\*PRQ\*0\*KH\*\*\*51 DTM\*150\*20180729 DTM\*151\*20180827 QTY\*QD\*800\*KH ← Consumption - Period 2 MEA\*AA\*PRQ\*800\*KH\*\*\*51 DTM\*150\*20180627 DTM\*151\*20180729 ← On-Site Generation - Period 2 - Still shows even though 0 OTY\*87\*0\*KH MEA\*AF\*PRO\*0\*KH\*\*\*51 because there is active on-site generation on the account DTM\*150\*20180627 DTM\*151\*20180729 QTY\*77\*100\*KH ← Community Solar - Period 2 MEA\*AF\*PRQ\*100\*KH\*\*\*51 DTM\*150\*20180627 DTM\*151\*20180729 QTY\*QH\*150\*KH ← Starting Bank - Period 2 MEA\*AA\*PRQ\*150\*KH\*\*\*51 DTM\*150\*20180627 DTM\*151\*20180729 ← Consumption - Period 1 QTY\*QD\*100\*KH MEA\*AA\*PRQ\*100\*KH\*\*\*51 DTM\*150\*20180529 DTM\*151\*20180627 ← On-Site Generation - Period 1 QTY\*87\*150\*KH MEA\*AF\*PRQ\*150\*KH\*\*\*51 DTM\*150\*20180529 DTM\*151\*20180627 OTY\*77\*100\*KH ← Community Solar - Period 1 MEA\*AF\*PRQ\*100\*KH\*\*\*51 DTM\*150\*20180529 DTM\*151\*20180627 ← Starting Bank - Period 1 QTY\*QH\*0\*KH MEA\*AA\*PRQ\*0\*KH\*\*\*51 DTM\*150\*20180529 DTM\*151\*20180627