

Illinois

Implementation
Guide
For
Electronic
Data
Interchange

Transaction Set
ANSI ASC X12 Version 004010

867
Monthly Usage
Version x.x

Summary of Changes

Month ##, 2008

- Initial Release.

Implementation Notes

PTD Loops Definition

- The PTD~SU loop is used to show the total usage for the account/service point. There will only be one PTD loop per transaction and is always required.
- The PTD~PL loop is used to show usage for each non-interval meter. There will only be one PL loop per meter and have multiple QTY/MEA loops for the different units of measure or measurement significance codes.
- The PTD~PM loop is used to show usage for each interval meter.
- The PTD~BC loop is used to show unmetered or adjusted usage.
 - For Ameren: Will be used if unmetered services are on the account. Also in the rare cases when an adjustment to the usage is requested by the customer and a cancel and rebill will not handle the adjustment amount. The adjustment could be for metered services. Ameren may have more than one BC loop per transaction as they will keep all adjustments in separate BC loops.
 - For ComEd: Will be used if unmetered services are on the account. ComEd will never have more than one BC loop per transaction.

Cancellations

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

Rebills

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

Definition of Mass Market Customers

- Ameren Mass Market - Includes any account containing one or more of only the following types of service point: DS-1 (residential), DS-2 (small commercial < 150 kw) or DS-5 (lighting).
- ComEd Mass Market – Includes all residential and commercial customers under 100KW. Customers with 100KW.

Definition of Service Point

- Ameren 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 RES is required to take all service points on the account that is being enrolled. For Non-Mass Market accounts, the RES 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.

867 Product Transfer and Resale Report

Functional Group ID=**PT**

Introduction:

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

Heading:

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

Detail:

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

Summary:

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

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: Required
 ST~867~00000001

Data Element Summary

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

Segment: **BPT** **Beginning Segment for Product Transfer and Resale**

Position: 020

Loop:

Level: Heading

Usage: Mandatory

Max Use: 1

Purpose: To indicate the beginning of the Product Transfer and Resale Report Transaction Set and transmit identifying data

Syntax Notes: 1 If either BPT05 or BPT06 is present, then the other is required.

Semantic Notes: 1 BPT02 identifies the transfer/resale number.

2 BPT03 identifies the transfer/resale date.

3 BPT08 identifies the transfer/resale time.

4 BPT09 is used when it is necessary to reference a Previous Report Number.

Comments:

Notes:

Required

BPT~00~20081012123456789~20081201~DD

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	BPT01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original Conveys original readings for the account being reported. 01 Cancellation Indicates that the readings previously reported for the account are to be ignored.	M ID 2/2
Must Use	BPT02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier A unique transaction identification number assigned by the originator of this transaction. This number should be unique over time. Transaction Reference Numbers will only contain uppercase letters (A to Z), digits (0 to 9), dashes (-) and periods (.). Note that all other characters (spaces, underscores, etc.) must be excluded.	M AN 1/30
Must Use	BPT03	373	Date Date expressed as CCYYMMDD Transaction Creation Date. This is the date that the transaction was created by the sender's application system.	M DT 8/8
Must Use	BPT04	755	Report Type Code Code indicating the title or contents of a document, report or supporting item CI Certificate of Inspection Report Indicates transaction is a Interval usage transaction with only interval meters on the account. DD Distributor Inventory Report Indicates transaction is a non-interval usage transaction. DR Datalog Report Mixed Values - Sent on interval transaction if the account has both interval and non-interval meters.	M ID 2/2
Dep	BPT09	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier When BPT01 = 01 this element should contain the transaction identification number sent in the BPT02 in the transaction that is being cancelled.	O AN 1/30

Segment: **DTM** Date/Time Reference (Document Due Date)
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:
Comments:

Notes: Required for Bill Ready Consolidated Billing where the Utility sends an 867 to the RES, who calculates their own portion of the bill and sends the 810 to the Utility. Must be expressed in Central Time. Not provided on cancel transaction.
DTM~649~20091225~1500

Data Element Summary

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

Segment: **N1** Name (Utility)
Position: 080
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.
Notes: Required
 N1~8S~UTILITY NAME~1~123456789

Data Element Summary

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

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

Data Element Summary

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

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

Data Element Summary

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

Segment: **REF** Reference Identification (RES Account Number)
Position: 120
Loop: N1 Mandatory
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Required if provided on the 814 Enrollment or 814 Change transaction.
REF~11~1234567890

Data Element Summary

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

Segment: **REF** Reference Identification (Utility Account Number)
Position: 120
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes:

Required

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 12 Billing Account Utility Account Number	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Utility Account Number	M AN 1/30
Must Use	REF03	352	Description A free-form description to clarify the related data elements and their content This code indicates the current class of customer in regards to the POR Eligibility groups as of the time the transaction is sent. GROUPA Ameren or ComEd POR Eligibility Group A GROUPB Ameren or ComEd POR Eligibility Group B GROUPC ComEd POR Eligibility Group C NONPOR Account not eligible for POR (Ameren or ComEd)	M AN 1/80

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

Ameren Mass Market: Required - Monthly Usage sent by Service Point
 Ameren Non-Mass Market: Required - Monthly Usage sent by Service Point
 ComEd: Not Used

Ameren currently uses an 8-digit Service Point Identifier. All 8 digits, including leading zeros must be provided.
 REF~LU~00034180

Data Element Summary

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

Segment: **REF** Reference Identification (Bill Presenter)
Position: 120
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Required
REF~BLT~LDC

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification BLT Billing Type Bill Presenter	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier DUAL The Utility and RES both Present Bills to the Customer ESP RES Presents the Consolidated Bill to the Customer LDC Utility Presents the Consolidated Bill to the Customer Used for both Rate Ready and Bill Ready Utility Consolidated Billing	M AN 1/30

Segment: **REF** Reference Identification (Bill Calculator)
Position: 120
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Required
REF~PC~DUAL

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification PC Production Code Identifies the party that is to calculate their charges for the bill.	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier DUAL Each party calculates its own charges LDC The Utility calculates the RES charges Used for Rate Ready Utility Consolidated Billing	M AN 1/30

Segment: **REF** Reference Identification (Payment Option)
Position: 120
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Required
REF~9V~Y

Data Element Summary

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

Segment: **PTD** Product Transfer and Resale Detail (Summary)

Position: 010

Loop: PTD Optional

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data

Syntax Notes: 1 If either PTD02 or PTD03 is present, then the other is required.

2 If either PTD04 or PTD05 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Required

There will only be 1 PTD~SU loop per transaction

PTD~SU

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PTD01	521	Product Transfer Type Code	M ID 2/2

Code identifying the type of product transfer

SU

Summary

This will be the total of all PM PL and BC Loops.

For Ameren, it will be by service point.

For ComEd, it will be by account/rate class.

Segment: **DTM** DTM (Service Period Start)
Position: 020
Loop: PTD Optional
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Required
 This date reflects the beginning of the date range for this billing period.
 DTM~150~20081201

Data Element Summary

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

Segment: **DTM** DTM (Service Period End)
Position: 020
Loop: PTD Optional
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Required
 This date reflects the ending of the date range for this billing period.
 DTM~151~20081230

Data Element Summary

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

Segment: **REF** REF (Utility Rate Class)
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Required
REF~NH~DS2~Small-General-Service

Data Element Summary

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

Segment: **REF** REF (Load Profile)
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Required
REF~LO~GS

Data Element Summary

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

Segment: **REF** REF (Supply Group)
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

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

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

Data Element Summary

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

Segment: QTY Quantity
Position: 110
Loop: QTY Optional (Dependent)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: 1 At least one of QTY02 or QTY04 is required.
 2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.
Comments:
Notes:

There will be one QTY loop for each type of consumption for the meter (i.e., kW, kWh, kVARH). If a meter measures total usage, as well as on-peak and off-peak, all three values would be contained in same QTY loop.

Required
QTY~QD~17~KH

Data Element Summary

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

Segment: **MEA** Measurements (Readings)
Position: 160
Loop: QTY Optional (Dependent)
Level: Detail
Usage: Optional (Dependent)
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 If MEA05 is present, then MEA04 is required.
- 3 If MEA06 is present, then MEA04 is required.
- 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 5 Only one of MEA08 or MEA03 may be present.

Semantic Notes:

- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes: Required
 MEA~AA~PRQ~87~KH~~~51
 MEA~AA~PRQ~3.5~K1~~~51

Data Element Summary

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

Segment: **PTD** Product Transfer and Resale Detail (Non-Interval Metered Services Detail)

Position: 010

Loop: PTD Optional

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data

Syntax Notes: 1 If either PTD02 or PTD03 is present, then the other is required.

2 If either PTD04 or PTD05 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

PTD Loops may be sent in any order.

Required if this is a non-interval metered account.

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

PTD~PL

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
Must Use	<u>Des.</u> PTD01	<u>Element</u> 521 Product Transfer Type Code	M ID 2/2
		Code identifying the type of product transfer	
		PL	Property Level Movement/Sale
			A PL loop will be provided for each non-interval meter.

Segment: **DTM** DTM (Meter Change Date)
Position: 020
Loop: PTD Optional
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

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

Data Element Summary

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

Segment: **DTM** DTM (Service Period Start)
Position: 020
Loop: PTD Optional
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Required
 This date reflects the beginning of the date range for this meter.
 DTM~150~20081201

Data Element Summary

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

Segment: **DTM** DTM (Service Period End)
Position: 020
Loop: PTD Optional
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Required
 This date reflects the ending of the date range for this meter.
 DTM~151~20081231

Data Element Summary

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

Segment: **REF** REF (Meter Number)
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Required if there is a metered account/service point and the meter is active during the service period.
REF~MG~12345

Data Element Summary

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

Segment: **REF** REF (Special Meter Configuration)
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Required
REF~KY~BMG

Data Element Summary

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

Segment: **REF** REF (Meter Type)
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Required
REF~MT~KHMON

Data Element Summary

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

Segment: **REF** REF (Meter Role)
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Required
REF~JH~A

Data Element Summary

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

Segment: **REF** REF (Meter Constant)
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes:

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

Data Element Summary

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

Segment: **REF** REF (Number of Dials)
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes:

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

Data Element Summary

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

Segment: **REF** REF (Transformer Loss Multiplier)
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes:

Required
 An adjustment applied to meter reads to compensate for the situation when the meter voltage is different than the delivery voltage
 REF~CO~1.12

Data Element Summary

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

Segment: QTY Quantity
Position: 110
Loop: QTY Floating
Level: Detail
Usage: Floating
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: 1 At least one of QTY02 or QTY04 is required.
 2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.
Comments:
Notes:

There will be one QTY loop for each type of consumption for the meter (i.e., kW, kWh, kVARH). If a meter measures total usage, as well as on-peak and off-peak, all three values would be contained in same QTY loop.
 Required if there are metered services on the account.
 QTY~QD~1234~KH

Data Element Summary

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

Segment: **MEA** Measurements (Readings)
Position: 160
Loop: QTY Floating
Level: Detail
Usage: Optional (Dependent)
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 If MEA05 is present, then MEA04 is required.
- 3 If MEA06 is present, then MEA04 is required.
- 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 5 Only one of MEA08 or MEA03 may be present.

Semantic Notes:

- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes: Required
 MEA~AA~PRQ~87~KH~1000~1087~51
 MEA~AA~PRQ~3.5~K1~~3.5~51

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	MEA01	737	Measurement Reference ID Code Code identifying the broad category to which a measurement applies AA Meter reading-beginning actual/ending actual AE Meter reading-beginning actual/ending estimated AF Actual Total EA Meter reading-beginning estimated/ending actual EE Meter reading-beginning estimated/ending estimated	M ID 2/2
Must Use	MEA02	738	Measurement Qualifier Code identifying a specific product or process characteristic to which a measurement applies PRQ Product Reportable Quantity	M ID 1/3
Must Use	MEA03	739	Measurement Value The value of the measurement	M R 1/20
	MEA04	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	X
Must Use	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken K1 Kilowatt Demand KW K3 Kilovolt Amperes Reactive Hour KVARH KH Kilowatt Hour KWH	M ID 2/2
	MEA05	740	Range Minimum The value specifying the minimum of the measurement range Beginning Read Required if the meter provides beginning reads and is measuring KWH. Not used on K1 (demand) reads.	C R 1/20
Must Use	MEA06	741	Range Maximum	M R 1/20

The value specifying the maximum of the measurement range

Ending reading for the meter or single reading for K1

Must Use	MEA07	935	Measurement Significance Code	M ID 2/2
			Code used to benchmark, qualify or further define a measurement value	
			41	Off Peak
			42	On Peak
			51	Total

Segment: **PTD** Product Transfer and Resale Detail (Unmetered Services Summary)

Position: 010

Loop: PTD Optional

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data

Syntax Notes: 1 If either PTD02 or PTD03 is present, then the other is required.

2 If either PTD04 or PTD05 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

For Ameren: Will be used if unmetered services are on the account. Also in the rare cases when an adjustment to the usage is requested by the customer and a cancel and rebill will not handle the adjustment amount. The adjustment could be for metered services. Ameren may have more than one BC loop per transaction as they will keep all adjustments in separate BC loops.

For ComEd: Will be used if unmetered services are on the account. ComEd will never have more than one BC loop per transaction.

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

PTD~BC

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	PTD01	521	Product Transfer Type Code	M ID 2/2
			Code identifying the type of product transfer	
			BC	Issue - Other Agency
				A BC loop will be sent for unmetered services or adjustments on the account/service point.

Segment: **DTM** DTM (Service Period Start)
Position: 020
Loop: PTD Optional
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Required
 This date reflects the beginning of the date range for this unmetered service.
 DTM~150~20081201

Data Element Summary

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

Segment: **DTM** DTM (Service Period End)
Position: 020
Loop: PTD Optional
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Required
 This date reflects the ending of the date range for this unmetered service.
 DTM~151~20081231

Data Element Summary

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

Segment: **REF** REF (Adjustment Reason)
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Required if there is adjusted usage
REF~AM~02

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification AM Adjustment Memo (Charge Back) Adjustment Reason	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Adjustment Reason 01 Fast meter 02 Slow meter 03 Stopped meter 04 Unmetered adjustment 05 Cut in flat 06 Other % increase 07 Other % decrease 08 Free service 09 Revenue protection 10 Revenue protection - unmeasured	M AN 1/30

Segment: QTY Quantity
Position: 110
Loop: QTY Optional (Dependent)
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: 1 At least one of QTY02 or QTY04 is required.
 2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.
Comments:
Notes:

This loop is required when there are unmetered services on the account. This will contain the total quantity for the unmetered services. QTY04 is used to indicate the adjustment reason for the usage.
 QTY~QD~150~KH

Data Element Summary

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

Segment: **PTD** Product Transfer and Resale Detail (Interval Metered Services Detail)
Position: 010
Loop: PTD Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data

Syntax Notes:
1 If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.

Semantic Notes:
Comments:

Notes: PTD Loops may be sent in any order.
 Required if this is an interval metered account.

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PTD01	521	Product Transfer Type Code	M ID 2/2
			Code identifying the type of product transfer	
			PM	Physical Meter Information
				A PM loop will be provided for each interval meter.

Segment: **DTM** DTM (Meter Change Date)
Position: 020
Loop: PTD Optional
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

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

Data Element Summary

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

Segment: **DTM** DTM (Service Period Start)
Position: 020
Loop: PTD Optional
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Required
 This date reflects the beginning of the date range for this meter.
 DTM~150~20081201

Data Element Summary

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

Segment: **DTM** DTM (Service Period End)
Position: 020
Loop: PTD Optional
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Required
 This date reflects the ending of the date range for this meter.
 DTM~151~20081231

Data Element Summary

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

Segment: **REF** REF (Meter Number)
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Required if there is a metered account/service point and the meter is active during the service period.
REF~MG~12345

Data Element Summary

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

Segment: **REF** REF (Special Meter Configuration)
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Required
REF~KY~AL

Data Element Summary

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

Segment: **REF** REF (Meter Type)
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Required
REF~MT~K1060

Data Element Summary

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

Segment: **REF** REF (Meter Role)
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Required
REF~JH~A

Data Element Summary

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

Segment: **REF** REF (Meter Constant)
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

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

Data Element Summary

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

Segment: **REF** REF (Number of Dials)
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes:

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

Data Element Summary

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

Segment: **REF** REF (Transformer Loss Multiplier)
Position: 030
Loop: PTD Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Required
An adjustment applied to meter reads to compensate for the situation when the meter voltage is different than the delivery voltage
REF~CO~1.12

Data Element Summary

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

Segment: QTY Quantity
Position: 110
Loop: QTY Floating
Level: Detail
Usage: Floating
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: 1 At least one of QTY02 or QTY04 is required.
 2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.
Comments:
Notes:

There will be one QTY loop for each type of consumption for the meter (i.e., kW, kWh, kVARH). If a meter measures total usage, as well as on-peak and off-peak, all three values would be contained in same QTY loop.
 Required if there are metered services on the account.
 QTY~QD~1234~KH

Data Element Summary

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

Segment: **MEA** Measurements (Readings)
Position: 160
Loop: QTY Floating
Level: Detail
Usage: Optional
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 If MEA05 is present, then MEA04 is required.
- 3 If MEA06 is present, then MEA04 is required.
- 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 5 Only one of MEA08 or MEA03 may be present.

Semantic Notes:

- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes: Required
 MEA~AA~PRQ~87~KH~~~51
 MEA~AA~PRQ~15.7~K1~~~51

Data Element Summary

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

Segment: **DTM** Date/Time Reference (Report Period)
Position: 210
Loop: QTY Floating
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:
Comments:

Notes: End date and time of the period for which the quantity is provided. Time will include zone. Each interval must be explicitly labeled with the date and time.
 Required
 DTM~582~20081215~1500

Data Element Summary

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

Segment: **SE** Transaction Set Trailer
Position: 030
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

Notes: Required
SE~21~00000001

Data Element Summary

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

Examples:

Example #1 – Monthly Usage - One Meter with on and off peak with BC loop for adjustment

Segment Contents	Element Description
ST~867~000000001	Transaction Header
BPT~00~20081012123456789~20081201~DD	Transaction Set Purpose Code: 00 , <i>Original</i> , Reference Identification: 20081012123456789 , <i>Transaction Reference Number</i> , Date: 20081201 , <i>Transaction creation date</i> , Report Type Code: DD , <i>Non-Interval Usage</i>
DTM~649~20091225~1500	Date Qualifier: 649 , <i>Document due date</i> , Date, 20091225 <i>Date document due</i> , Time, 1500 <i>Time document due</i>
N1~8S~Utility Company~1~123456789	Entity Identifier: 8S , <i>Utility Qualifier</i> , Name: Utility Company , <i>Utility Name</i> , Identification Code Qualifier: 1 , <i>Duns Number Indicator</i> , Identification Code: 123456789 , <i>Utility Duns Number</i> .
N1~SJ~RES Company~1~987654321	Entity Identifier: SJ , <i>RES Qualifier</i> , Name: RES Company , <i>RES Name</i> , Identification Code Qualifier: 1 , <i>Duns Number Indicator</i> , Identification Code: 987654321 , <i>RES Duns Number</i> .
N1~8R~Customer Name	Entity Identifier: 8R , <i>Customer Qualifier</i> , Name: Customer Name , <i>Customer Name</i>
REF~11~1234567890	Reference Identifier: 11 , <i>RES Account Number Qualifier</i> , Number: 1234567890 , <i>RES Account Number</i>
REF~12~0123456789~GROUPA	Reference Identifier: 12 , <i>LDC Account Number Qualifier</i> , Number: 0123456789 , <i>LDC Account Number</i> , Reference Description: GROUPA , <i>POR Eligibility Group</i>
REF~LU~00034180	Reference Identifier: LU , <i>Service Point Identifier Qualifier</i> , Number: 00034180 , <i>Service Point Identifier (NOT USED FOR COMED)</i>
REF~BLT~LDC	Reference Identifier: BLT , <i>Bill Presenter Qualifier</i> , Code: LDC , <i>Bill Ready Utility Consolidated Billing</i>
REF~PC~DUAL	Reference Identifier: PC , <i>Party that calculates the bill Qualifier</i> , Code: DUAL , <i>Dual Calculation</i>
REF~9V~Y	Reference Identifier: 9V , <i>Payment Category Qualifier</i> , Code: Y , <i>Customer should be signed up for the POR program</i>
PTD~SU	Monthly Billed Summary loop
DTM~150~20080901	Date Qualifier: 150, <i>Service Period Start Qualifier</i> , Date 20080901 <i>Service Period Start</i>
DTM~151~20081010	Date Qualifier: 151, <i>Service Period End Qualifier</i> , Date 20081001 <i>Service Period End</i>
REF~NH~DS2~Small-General-Service	Reference Identifier: NH , <i>Utility Rate Class Qualifier</i> , Number: DS2 , <i>Utility Rate Class</i> , Description: Small-General-Service <i>Text description of rate class</i>
REF~LO~GS	Reference Identifier: GS , <i>Load Profile Qualifier</i> , Number: GS , <i>Load Profile</i>
REF~PTC~~Self-Generating	Reference Identifier: PTC , <i>Supply Group Qualifier</i> , Description: Self-Generating , <i>Supply Group (NOT USED FOR AMEREN)</i>
QTY~QD~87~KH	Quantity Qualifier: QD , <i>Actual Reading</i> , Quantity 87 , <i>Consumption delivered</i> , Unit of measure KH , <i>Kilowatt Hour</i>
MEA~AA~PRQ~87~KH~~~51	Measurement Reference: AA , <i>Beginning actual/Ending actual Reading Type</i> , Measurement Qualifier: PRQ , <i>Product Reportable Quantity Qualifier</i> , Measurement Value: 87 , <i>Consumption</i> , Unit of Measure, KH , <i>Kilowatt Hour</i> , Measurement Significance Code: 51 , <i>Total</i> .

QTY~QD~25~KH	Quantity Qualifier: QD , <i>Actual Reading</i> , Quantity 25 , <i>Consumption delivered</i> , Unit of measure KH , <i>Kilowatt Hour</i>
MEA~AA~PRQ~25~KH~41	Measurement Reference: AA , <i>Beginning actual/Ending actual Reading Type</i> , Measurement Qualifier: PRQ , <i>Product Reportable Quantity Qualifier</i> , Measurement Value: 25 , <i>Consumption</i> , Unit of Measure, KH , <i>Kilowatt Hour</i> , Measurement Significance Code: 41 , <i>Off Peak</i>
QTY~QD~62~KH	Quantity Qualifier: QD , <i>Actual Reading</i> , Quantity 62 , <i>Consumption delivered</i> , Unit of measure KH , <i>Kilowatt Hour</i>
MEA~AA~PRQ~62~KH~42	Measurement Reference: AA , <i>Beginning actual/Ending actual Reading Type</i> , Measurement Qualifier: PRQ , <i>Product Reportable Quantity Qualifier</i> , Measurement Value: 62 , <i>Consumption</i> , Unit of Measure, KH , <i>Kilowatt Hour</i> , Measurement Significance Code: 42 , <i>On Peak</i>
QTY~QD~7.5~K1	Quantity Qualifier: QD , <i>Actual Reading</i> , Quantity 7.5 , <i>Consumption delivered</i> , Unit of measure K1 , <i>Kilowatt Demand</i>
MEA~AA~PRQ~7.5~K1~41	Measurement Reference: AA , <i>Beginning actual/Ending actual Reading Type</i> , Measurement Qualifier: PRQ , <i>Product Reportable Quantity Qualifier</i> , Measurement Value: 7.5 , <i>Consumption</i> , Unit of Measure, K1 , <i>Kilowatt Demand</i> , Measurement Significance Code: 41 , <i>Off Peak</i>
QTY~QD~18.5~K1	Quantity Qualifier: QD , <i>Actual Reading</i> , Quantity 18.5 , <i>Consumption delivered</i> , Unit of measure K1 , <i>Kilowatt Demand</i>
MEA~AA~PRQ~18.5~K1~42	Measurement Reference: AA , <i>Beginning actual/Ending actual Reading Type</i> , Measurement Qualifier: PRQ , <i>Product Reportable Quantity Qualifier</i> , Measurement Value: 18.5 , <i>Consumption</i> , Unit of Measure, K1 , <i>Kilowatt Demand</i> , Measurement Significance Code: 42 , <i>On Peak</i>
PTD~PL	Non-Interval Meter detail loop
DTM~150~20080901	Date Qualifier: 150, <i>Service Period Start Qualifier</i> , Date 20080901 <i>Service Period Start</i>
DTM~151~20081010	Date Qualifier: 151, <i>Service Period End Qualifier</i> , Date 20081001 <i>Service Period End</i>
REF~MG~12345	Reference Identifier: MG , <i>Meter Number Qualifier</i> , Number: 12345 , <i>Meter Number</i>
REF~KY~BMG	Reference Identifier: KY , <i>Special Meter Configuration Qualifier</i> , Code: BMG , <i>Behind the meter generation</i>
REF~MT~K1MON	Reference Identifier: MT , <i>Meter Type Qualifier</i> , Code: K1MON , <i>Kilowatt Demand monthly</i>
REF~JH~A	Reference Identifier: JH , <i>Meter Role Qualifier</i> , Number: A , <i>Meter Role</i>
REF~4P~000001.0000	Reference Identifier: 4P , <i>Meter Multiplier Qualifier</i> , Measurement Value: 000001.000 , <i>Meter Multiplier</i>
REF~IX~6.0	Reference Identifier: IX , <i>Number of Dials Qualifier</i> , Measurement Value: 6.0 , <i>Number of Dials</i>
REF~CO~1.12	Reference Identifier: CO , <i>Transformer Loss Multiplier Qualifier</i> , Measurement Value: 1.12 , <i>Transformer Loss Multiplier</i>
QTY~QD~86~KH	Quantity Qualifier: QD , <i>Quantity Delivered</i> , Quantity 86 , <i>Consumption delivered</i> , Unit of measure KH , <i>Kilowatt Hour</i>
MEA~AA~PRQ~86~KH~1012~1098~51	Measurement Reference: AA , <i>Beginning actual/Ending actual Reading Type</i> , Measurement Qualifier: PRQ , <i>Product Reportable Quantity Qualifier</i> , Measurement Value: 86 , <i>Consumption</i> , Unit of Measure, KH , <i>Kilowatt Hour</i> , Range Minimum, 1012 , <i>Beginning Read</i> , Range Maximum, 1098 , <i>Ending Read</i> , Measurement Significance Code: 51 , <i>Total</i>

QTY~QD~25~KH	Quantity Qualifier: QD , <i>Actual Reading</i> , Quantity 25 , <i>Consumption delivered</i> , Unit of measure KH , <i>Kilowatt Hour</i>
MEA~AA~PRQ~25~KH~41	Measurement Reference: AA , <i>Beginning actual/Ending actual Reading Type</i> , Measurement Qualifier: PRQ , <i>Product Reportable Quantity Qualifier</i> , Measurement Value: 25 , <i>Consumption</i> , Unit of Measure, KH , <i>Kilowatt Hour</i> , Measurement Significance Code: 41 , <i>Off Peak</i>
QTY~QD~61~KH	Quantity Qualifier: QD , <i>Actual Reading</i> , Quantity 61 , <i>Consumption delivered</i> , Unit of measure KH , <i>Kilowatt Hour</i>
MEA~AA~PRQ~61~KH~42	Measurement Reference: AA , <i>Beginning actual/Ending actual Reading Type</i> , Measurement Qualifier: PRQ , <i>Product Reportable Quantity Qualifier</i> , Measurement Value: 61 , <i>Consumption</i> , Unit of Measure, KH , <i>Kilowatt Hour</i> , Measurement Significance Code: 42 , <i>On Peak</i>
QTY~QD~7.5~K1	Quantity Qualifier: QD , <i>Actual Reading</i> , Quantity 7.5 , <i>Consumption delivered</i> , Unit of measure K1 , <i>Kilowatt Demand</i>
MEA~AA~PRQ~7.5~K1~41	Measurement Reference: AA , <i>Beginning actual/Ending actual Reading Type</i> , Measurement Qualifier: PRQ , <i>Product Reportable Quantity Qualifier</i> , Measurement Value: 7.5 , <i>Consumption</i> , Unit of Measure, K1 , <i>Kilowatt Demand</i> , , Measurement Significance Code: 41 , <i>Off Peak</i>
QTY~QD~18.5~K1	Quantity Qualifier: QD , <i>Actual Reading</i> , Quantity 18.5 , <i>Consumption delivered</i> , Unit of measure K1 , <i>Kilowatt Demand</i>
MEA~AA~PRQ~18.5~K1~42	Measurement Reference: AA , <i>Beginning actual/Ending actual Reading Type</i> , Measurement Qualifier: PRQ , <i>Product Reportable Quantity Qualifier</i> , Measurement Value: 18.5 , <i>Consumption</i> , Unit of Measure, K1 , <i>Kilowatt Demand</i> , , Measurement Significance Code: 42 , <i>On Peak</i>
PTD~BC	Unmetered detail loop
DTM~150~20080901	Date Qualifier: 150, <i>Service Period Start Qualifier</i> , Date 20080901 <i>Service Period Start</i>
DTM~151~20081010	Date Qualifier: 151, <i>Service Period End Qualifier</i> , Date 20081001 <i>Service Period End</i>
REF~AM~02	Reference Identifier: AM , <i>Adjustment Reason Qualifier</i> , Number: 02 , <i>Slow Meter</i>
QTY~QD~1~KH	Quantity Qualifier: QD , <i>Quantity Delivered</i> , Quantity 1 , Unit of measure KH , <i>Kilowatt Hour</i>
SE~54~00000001	Transaction Trailer

Example # – Monthly Usage - One Meter interval

Segment Contents	Element Description
ST~867~000000001	Transaction Header
BPT~00~20081012123456789~~20081201~C1	Transaction Set Purpose Code: 00 , <i>Original</i> , Reference Identification: 20081012123456789 , <i>Transaction Reference Number</i> , Date: 20081201 , <i>Transaction creation date</i> , Report Type Code: C1 , <i>Interval Usage</i>
DTM~649~20091225~1500	Date Qualifier: 649 , <i>Document due date</i> , Date, 20091225 <i>Date document due</i> , Time, 3:00 PM <i>Time document due</i>
N1~8S~Utility Company~1~123456789	Entity Identifier: 8S , <i>Utility Qualifier</i> , Name: Utility Company , <i>Utility Name</i> , Identification Code Qualifier: 1 , <i>Duns Number Indicator</i> , Identification Code: 123456789 , <i>Utility Duns Number</i> .
N1~SJ~RES Company~1~987654321	Entity Identifier: SJ , <i>RES Qualifier</i> , Name: RES Company , <i>Utility Name</i> , Identification Code Qualifier: 1 , <i>Duns Number Indicator</i> , Identification Code: 987654321 , <i>RES Duns Number</i> .
N1~8R~Customer Name	Entity Identifier: 8R , <i>Customer Qualifier</i> , Name: Customer Name , <i>Customer Name</i>
REF~11~1234567890	Reference Identifier: 11 , <i>RES Account Number Qualifier</i> , Number: 1234567890 , <i>RES Account Number</i>
REF~12~0123456789~GROUPA	Reference Identifier: 12 , <i>LDC Account Number Qualifier</i> , Number: 0123456789 , <i>LDC Account Number</i> , Reference Description: GROUPA , <i>POR Eligibility Group</i>
REF~LU~00034180	Reference Identifier: LU , <i>Service Point Identifier Qualifier</i> , Number: 00034180 , <i>Service Point Identifier (NOT USED FOR COMED)</i>
REF~BLT~LDC	Reference Identifier: BLT , <i>Bill Presenter Qualifier</i> , Code: LDC , <i>Bill Ready Utility Consolidated Billing</i>
REF~PC~DUAL	Reference Identifier: PC , <i>Billing Party Qualifier</i> , Code: DUAL , <i>Dual Calculation</i>
REF~9V~Y	Reference Identifier: 9V , <i>Payment Category Qualifier</i> , Code: Y , <i>Customer should be signed up for the POR program</i>
PTD~SU	Monthly Billed Summary loop
DTM~150~20080901	Date Qualifier: 150, <i>Service Period Start Qualifier</i> , Date 20080901 <i>Service Period Start</i>
DTM~151~20081010	Date Qualifier: 151, <i>Service Period End Qualifier</i> , Date 20081001 <i>Service Period End</i>
REF~NH~DS2~Small-General-Service	Reference Identifier: NH , <i>Utility Rate Class Qualifier</i> , Number: DS2 , <i>Utility Rate Class</i> , Description: Small-General-Service <i>Text description of rate class</i>
REF~LO~GS	Reference Identifier: GS , <i>Load Profile Qualifier</i> , Number: GS , <i>Load Profile</i>
REF~PTC~~Self-Generating	Reference Identifier: PTC , <i>Supply Group Qualifier</i> , Description: Self-Generating , <i>Supply Group (NOT USED FOR AMEREN)</i>
QTY~QD~178623~KH	Quantity Qualifier: QD , <i>Actual Reading</i> , Quantity 178623 , <i>Consumption delivered</i> , Unit of measure KH , <i>Kilowatt Hour</i>
MEA~AA~PRQ~178623~KH~~51	Measurement Reference: AA , <i>Beginning actual/Ending actual Reading Type</i> , Measurement Qualifier: PRQ , <i>Product Reportable Quantity Qualifier</i> , Measurement Value: 178623 , <i>Consumption</i> , Unit of Measure, KH , <i>Kilowatt Hour</i> , Measurement Significance Code: 51 , <i>Total</i> .
QTY~QD~55621~KH	Quantity Qualifier: QD , <i>Actual Reading</i> , Quantity 55621 , <i>Consumption delivered</i> , Unit of measure KH , <i>Kilowatt Hour</i>

MEA~AA~PRQ~55621~KH~41	Measurement Reference: AA , <i>Beginning actual/Ending actual Reading Type</i> , Measurement Qualifier: PRQ , <i>Product Reportable Quantity Qualifier</i> , Measurement Value: 55621 , <i>Consumption</i> , Unit of Measure, KH , <i>Kilowatt Hour</i> , Measurement Significance Code: 41 , <i>Off Peak</i>
QTY~QD~123002~KH	Quantity Qualifier: QD , <i>Actual Reading</i> , Quantity 123002 , <i>Consumption delivered</i> , Unit of measure KH , <i>Kilowatt Hour</i>
MEA~AA~PRQ~123002~KH~42	Measurement Reference: AA , <i>Beginning actual/Ending actual Reading Type</i> , Measurement Qualifier: PRQ , <i>Product Reportable Quantity Qualifier</i> , Measurement Value: 123002 , <i>Consumption</i> , Unit of Measure, KH , <i>Kilowatt Hour</i> , Measurement Significance Code: 42 , <i>On Peak</i>
QTY~QD~107.5~K1	Quantity Qualifier: QD , <i>Actual Reading</i> , Quantity 107.5 , <i>Consumption delivered</i> , Unit of measure K1 , <i>Kilowatt Demand</i>
MEA~AA~PRQ~107.5~K1~41	Measurement Reference: AA , <i>Beginning actual/Ending actual Reading Type</i> , Measurement Qualifier: PRQ , <i>Product Reportable Quantity Qualifier</i> , Measurement Value: 107.5 , <i>Consumption</i> , Unit of Measure, K1 , <i>Kilowatt Demand</i> , Measurement Significance Code: 41 , <i>Off Peak</i>
QTY~QD~187.5~K1	Quantity Qualifier: QD , <i>Actual Reading</i> , Quantity 187.5 , <i>Consumption delivered</i> , Unit of measure K1 , <i>Kilowatt Demand</i>
MEA~AA~PRQ~187.5~K1~42	Measurement Reference: AA , <i>Beginning actual/Ending actual Reading Type</i> , Measurement Qualifier: PRQ , <i>Product Reportable Quantity Qualifier</i> , Measurement Value: 187.5 , <i>Consumption</i> , Unit of Measure, K1 , <i>Kilowatt Demand</i> , Measurement Significance Code: 42 , <i>On Peak</i>
PTD~PM	Interval Meter detail loop
DTM~150~20080901	Date Qualifier: 150, <i>Service Period Start Qualifier</i> , Date 20080901 <i>Service Period Start</i>
DTM~151~20081010	Date Qualifier: 151, <i>Service Period End Qualifier</i> , Date 20081001 <i>Service Period End</i>
REF~MG~16845	Reference Identifier: MG , <i>Meter Number Indicator</i> , Number: 16845 , <i>Meter Number</i>
REF~KY~GM	Reference Identifier: KY , <i>Special Meter Configuration Qualifier</i> , Code: BMG , <i>Behind the meter generation</i>
REF~MT~K1060	Reference Identifier: MT , <i>Meter Type Qualifier</i> , Code: K1060 , <i>Kilowatt Demand hourly</i>
REF~JH~A	Reference Identifier: JH , <i>Meter Role Qualifier</i> , Number: A , <i>Meter Role</i>
REF~4P~000001.0000	Reference Identifier: 4P , <i>Meter Multiplier Qualifier</i> , Measurement Value: 000001.000 , <i>Meter Multiplier</i>
REF~IX~6.0	Reference Identifier: IX , <i>Number of Dials Qualifier</i> , Measurement Value: 6.0 , <i>Number of Dials</i>
REF~CO~1.12	Reference Identifier: CO , <i>Transformer Loss Multiplier Qualifier</i> , Measurement Value: 1.12 , <i>Transformer Loss Multiplier</i>
QTY~QD~22~KH	Quantity Qualifier: QD , <i>Quantity Delivered</i> , Quantity 22 , <i>Consumption delivered</i> , Unit of measure KH , <i>Kilowatt Hour</i>
MEA~AA~PRQ~22~KH~51	Measurement Reference: AA , <i>Beginning actual/Ending actual Reading Type</i> , Measurement Qualifier: PRQ , <i>Product Reportable Quantity Qualifier</i> , Measurement Value: 22 , <i>Consumption</i> , Unit of Measure, KH , <i>Kilowatt Hour</i> , Measurement Significance Code: 51 , <i>Total</i>
QTY~QD~18.5~K1	Quantity Qualifier: QD , <i>Quantity Delivered</i> , Quantity 18.5 , Unit of measure K1 , <i>Kilowatt Demand</i>

MEA~AA~PRQ~18.5~K1~~~51	Measurement Reference: AA , <i>Reading Type</i> , Measurement Qualifier: PRQ , <i>Consumption</i> , Measurement Value: 18.5 , <i>Consumption</i> , Unit of Measure, K1 , <i>Kilowatt Demand</i> , <i>Ending Read</i> , Measurement Significance Code: 51 , <i>Total</i> .
DTM~582~20080901~0100	Date Qualifier: 582, <i>End date and time qualifier</i> , Date 20080901 , Time: 0100 , 1:00 AM
QTY~QD~24~KH	Quantity Qualifier: QD , <i>Quantity Delivered</i> , Quantity 24 , Unit of measure KH , <i>Kilowatt Hour</i>
MEA~AA~PRQ~24~KH~~~51	Measurement Reference: AA , <i>Reading Type</i> , Measurement Qualifier: PRQ , <i>Consumption</i> , Measurement Value: 24 , <i>Consumption</i> , Unit of Measure, KH , <i>Kilowatt Hour</i> , , Measurement Significance Code: 51 , <i>Total</i> .
QTY~QD~18.5~K1	Quantity Qualifier: QD , <i>Quantity Delivered</i> , Quantity 18.5 , Unit of measure K1 , <i>Kilowatt Demand</i>
MEA~AA~PRQ~18.5~K1~~~51	Measurement Reference: AA , <i>Reading Type</i> , Measurement Qualifier: PRQ , <i>Consumption</i> , Measurement Value: 18.5 , <i>Consumption</i> , Unit of Measure, K1 , <i>Kilowatt Demand</i> , , Measurement Significance Code: 51 , <i>Total</i> .
DTM~582~20080901~0200	Date Qualifier: 582, <i>End date and time qualifier</i> , Date 20080901 , Time: 0200 2:00 AM
...Continued on until the end of the period specified	
QTY~QD~24~KH	Quantity Qualifier: QD , <i>Quantity Delivered</i> , Quantity 24 , Unit of measure KH , <i>Kilowatt Hour</i>
QTY~QD~18.5~K1	Quantity Qualifier: QD , <i>Quantity Delivered</i> , Quantity 18.5 , Unit of measure K1 , <i>Kilowatt Demand</i>
DTM~582~20080930~2359	Date Qualifier: 582, <i>End date and time qualifier</i> , Date 20080930 , Time: 2359 11:59 PM
SE~688~00000001	Transaction Trailer