

**Illinois**

Implementation  
Guide  
For  
**E**lectronic  
**D**ata  
**I**nterchange

Transaction Set  
ANSI ASC X12 Version 004010

**867**

**Daily Usage**  
Version 1.1

**Summary of Changes**

- |                  |                    |
|------------------|--------------------|
| October 27, 2014 | • Initial Release. |
| May 6, 2015      | • Updated Examples |

## Implementation Notes

Use	<ul style="list-style-type: none"><li>• This implementation guide is only used by Ameren for sending daily intervals. ComEd will provide similar information via the Supplier Portal.</li></ul>
PTD Loops Definition	<ul style="list-style-type: none"><li>• The PTD~SU loop is used to show the total usage for the account/service point. There will only be one PTD~SU loop per transaction and is always required.</li><li>• The PTD~PM loop is used to show usage for each interval meter.</li><li>• Neither ComEd nor Ameren will ever send time of use meters and non-time of use meters in the same transactions. Therefore the total of the on peak and off peak kWh readings will equal the total for kWh on the account.</li></ul>
Definition of Mass Market Customers	<ul style="list-style-type: none"><li>• Ameren Mass Market<ul style="list-style-type: none"><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></ul></li></ul>
Definition of Service Point	<ul style="list-style-type: none"><li>• 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 (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.</li></ul>

# 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**

	<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element Name</b>	
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~00~20150611123456789~20150611~DU

#### 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	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 00 Original Conveys original readings for the account being reported.	M ID 2/2
Must Use	BPT02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier A unique transaction identification number assigned by the originator of this transaction. This number should be unique over time. Transaction Reference Numbers will only contain uppercase letters (A to Z), digits (0 to 9), dashes (-) and periods (.). Note that all other characters (spaces, underscores, etc.) must be excluded.	O AN 1/30
Must Use	BPT03	373	<b>Date</b> 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	<b>Report Type Code</b> Code indicating the title or contents of a document, report or supporting item DU Commercial Daily Usage	O ID 2/2

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

**Data Element Summary**

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

**Segment:** **N1** Name (Retail Electric Supplier)  
**Position:** 080  
**Loop:** N1 Optional (Must Use)  
**Level:** Heading  
**Usage:** Optional (Must Use)  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:** 1 At least one of N102 or N103 is required.  
 2 If either N103 or N104 is present, then the other is required.  
**Semantic Notes:**  
**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.  
 2 N105 and N106 further define the type of entity in N101.  
**Notes:** Required  
 N1~SJ~RES 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)	
Must Use	N102	93	Name Free-form name RES Name	X AN 1/60
Must Use	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	X ID 1/2
Must Use	N104	67	Identification Code Code identifying a party or other code RES D-U-N-S or D-U-N-S+4 Number	X AN 9/80

**Segment:** **N1** Name (Customer)  
**Position:** 080  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:**

- 1 At least one of N102 or N103 is required.
- 2 If either N103 or N104 is present, then the other is required.

**Semantic Notes:**  
**Comments:**

- 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
- 2 N105 and N106 further define the type of entity in N101.

**Notes:** Required  
N1~8R~CUSTOMER NAME

**Data Element Summary**

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

**Segment:** **REF** Reference Identification (RES Account Number)  
**Position:** 120  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 12  
**Purpose:** To specify identifying information  
**Syntax Notes:**

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

**Semantic Notes:**

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

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

**Data Element Summary**

	<u>Ref. 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	
			11 Account Number	
			Retail Electric Supplier (RES) Account Number	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			RES Account Number	

**Segment:** **REF** Reference Identification (Utility Account Number)  
**Position:** 120  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 12  
**Purpose:** To specify identifying information  
**Syntax Notes:**

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

**Semantic Notes:**

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

**Comments:**  
**Notes:** Required  
 Ameren currently uses a 10-digit account number. 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	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 12 Billing Account Utility Account Number	M ID 2/3
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Utility Account Number	X AN 1/30
Must Use	REF03	352	<b>Description</b> 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 POR Eligibility Group A Residential POR Eligible Accounts GROUPB POR Eligibility Group B Commercial Mass Market POR Eligible Accounts GROUPC POR Eligibility Group C Non-Mass Market POR Eligible Accounts NONPOR Account Not Eligible for POR	X AN 1/80

**Segment:** **REF** Reference Identification (Service Point Identifier)  
**Position:** 120  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 12  
**Purpose:** To specify identifying information  
**Syntax Notes:**

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

**Semantic Notes:**

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

**Comments:**  
**Notes:** Required  
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	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification LU Location Number Service Point Identifier	M ID 2/3
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Service Point Identifier	X AN 1/30

**Segment:** **REF** Reference Identification (Rate Zone)  
**Position:** 120  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 12  
**Purpose:** To specify identifying information  
**Syntax Notes:**

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

**Semantic Notes:**

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

**Comments:**  
**Notes:** Required  
REF~SPL~RATE ZONE I  
REF~SPL~RATE ZONE II  
REF~SPL~RATE ZONE III

**Data Element Summary**

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

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

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

**Semantic Notes:**

**Comments:**

**Notes:**

Required  
 There will only be 1 PTD~SU loop per transaction  
 PTD~SU~~~OZ~EL

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PTD01	521	<b>Product Transfer Type Code</b> Code identifying the type of product transfer SU Summary This will be the total of all kWh presented on the 867 Daily Usage for this Service Point.	M ID 2/2
Must Use	PTD04	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification OZ Product Number Commodity	X ID 2/3
Must Use	PTD05	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier EL Electric	X AN 1/30

**Segment:** **DTM** Date/Time Reference (Service Period Start)  
**Position:** 020  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

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

**Semantic Notes:**

**Comments:**

**Notes:**

Required  
 This date reflects the beginning of the date range for usage provided in the 867 Daily Usage for this Service Point.  
 DTM~150~20150608

**Data Element Summary**

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

**Segment:** **DTM** Date/Time Reference (Service Period End)  
**Position:** 020  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

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

**Semantic Notes:**

**Comments:**

**Notes:**

Required  
 This date reflects the ending of the date range for usage provided in the 867 Daily Usage for this Service Point.  
 DTM~151~20150609

**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	X DT 8/8

**Segment:** **REF** Reference Identification (Utility Rate Class)  
**Position:** 030  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 20  
**Purpose:** To specify identifying information  
**Syntax Notes:**

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

**Semantic Notes:**

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

**Comments:**  
**Notes:** Required  
REF~NH~GS1~Large-GS

**Data Element Summary**

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

**Segment:** **REF** Reference Identification (Load Profile)  
**Position:** 030  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 20  
**Purpose:** To specify identifying information  
**Syntax Notes:**

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

**Semantic Notes:**

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

**Comments:**  
**Notes:** Required  
REF~LO~GS

**Data Element Summary**

	<u>Ref. 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	X AN 1/30

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

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 Code specifying the type of quantity KA Estimated QD Quantity Delivered	M ID 2/2 Used when Quantity in QTY02 is an Estimated Reading Used when Quantity in QTY02 is an Actual Reading
Must Use	QTY02	380	Quantity Numeric value of quantity Represents quantity of consumption delivered or generation received for the period indicated.	X R 1/15
	QTY03	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	O
Must Use	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken KH Kilowatt Hour KWH	M ID 2/2

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

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

**Semantic Notes:**

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

**Comments:**

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

**Notes:** Required  
 MEA~AA~PRQ~87~KH~~~51

**Data Element Summary**

Ref.	Data Element	Name	Attributes
Must Use	MEA01	737 Measurement Reference ID Code	O ID 2/2
		Code identifying the broad category to which a measurement applies	
		AA Meter reading-beginning actual/ending actual	
		Sent if all intervals included in the 867 Daily Usage are actual	
		EE Meter reading-beginning estimated/ending estimated	
		Sent if any interval included in the 867 Daily Usage is estimated	
Must Use	MEA02	738 Measurement Qualifier	O ID 1/3
		Code identifying a specific product or process characteristic to which a measurement applies	
		PRQ Product Reportable Quantity	
	MEA03	739 Measurement Value	X R 1/20
		The value of the measurement	
		Represents quantity of consumption delivered or generation received for the period indicated.	
	MEA04	C001 Composite Unit of Measure	X
		To identify a composite unit of measure (See Figures Appendix for examples of use)	
Must Use	C00101	355 Unit or Basis for Measurement Code	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		KH Kilowatt Hour	
		KWH	
Must Use	MEA07	935 Measurement Significance Code	O ID 2/2
		Code used to benchmark, qualify or further define a measurement value	
		51 Total	

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

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

**Semantic Notes:**

**Comments:**

**Notes:** PTD Loops may be sent in any order.  
 Required  
 PTD~DL

**Data Element Summary**

	<b>Ref. Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
<b>Must Use</b>	<b>PTD01</b>	<b>521</b>	<b>Product Transfer Type Code</b> Code identifying the type of product transfer DL Oil Deliveries A DL loop will be provided for each interval meter.	<b>M ID 2/2</b>
<b>Must Use</b>	<b>PTD04</b>	<b>128</b>	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification OZ Product Number Commodity	<b>X ID 2/3</b>
<b>Must Use</b>	<b>PTD05</b>	<b>127</b>	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier EL Electric	<b>X AN 1/30</b>

**Segment:** **DTM** Date/Time Reference (Meter Change Date)  
**Position:** 020  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

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

**Semantic Notes:**

**Comments:**

**Notes:**

Required when a meter is changed  
Used in conjunction with either the service period start date or the service period end date to indicate when a meter has been replaced. Separate PTD loops must be created for each period and meter.  
DTM~514~20150609

**Data Element Summary**

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

**Segment:** **DTM** Date/Time Reference (Service Period Start)  
**Position:** 020  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

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

**Semantic Notes:**

**Comments:**

**Notes:**

Required unless replaced by DTM\*514 for a Meter Exchange  
 This date reflects the beginning of the date range for this meter.  
 DTM~150~20150608

**Data Element Summary**

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

**Segment:** **DTM** Date/Time Reference (Service Period End)  
**Position:** 020  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

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

**Semantic Notes:**

**Comments:**

**Notes:**

Required unless replaced by DTM\*514 for a Meter Exchange  
 This date reflects the ending of the date range for this meter.  
 DTM~151~20150609

**Data Element Summary**

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

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

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

**Semantic Notes:**

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

**Comments:**  
**Notes:** Required  
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	X AN 1/30

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

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

**Semantic Notes:**

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

**Comments:**  
**Notes:** Required if applicable  
REF~KY~BMG

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification KY Site Specific Procedures, Terms, and Conditions Special Meter Configuration	<b>M ID 2/3</b>
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Special Meter Configuration BMG Behind the Meter Generation (Ameren) NM-BI Net Metering - Bidirectional Meter (Ameren) NM-GG Net Metering - Gross Generation Meter (Ameren) NM-GL Net Metering - Gross Load Meter (Ameren)	<b>X AN 1/30</b>

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

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

**Semantic Notes:**

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

**Comments:**  
**Notes:** Required  
REF~MT~KH060

**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 KH Kilowatt Hour (kWh)  Metering Interval Reported for Billing Purposes nnn Number of minutes from 001 to 999 060 60 minute interval  For Example: KH060 Kilowatt Hours per 60 minute interval	X AN 1/30

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

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

**Semantic Notes:**

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

**Comments:**  
**Notes:** Required  
REF~JH~A

**Data Element Summary**

	<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.	X AN 1/30

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

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

**Semantic Notes:**

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

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

**Data Element Summary**

	<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	X AN 1/30



**Segment:** **REF** Reference Identification (Transformer Loss Multiplier)  
**Position:** 030  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 20  
**Purpose:** To specify identifying information  
**Syntax Notes:**

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

**Semantic Notes:**

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

**Comments:**  
**Notes:** Required if the value is other than 1  
An adjustment applied to meter reads to compensate for the situation when the meter voltage is different than the delivery voltage  
REF~CO~1.12

**Data Element Summary**

	<u>Ref. 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 Customer Order Number Transformer Loss Multiplier	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Transformer Loss Multiplier	X AN 1/30

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

There will be one QTY loop for each meter and meter role (additive/subtractive).  
 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 Code specifying the type of quantity KA Estimated QD Quantity Delivered	M ID 2/2
				Used when Quantity in QTY02 is an Estimated Reading
				Used when Quantity in QTY02 is an Actual Reading
Must Use	QTY02	380	Quantity Numeric value of quantity Represents quantity of consumption delivered or generation received for the period indicated.	X R 1/15
	QTY03	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	O
Must Use	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken KH Kilowatt Hour KWH	M ID 2/2

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

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

**Semantic Notes:**

**Comments:**

**Notes:**

End date and time of the period for which the quantity is provided. Time will include zone. Each interval must be explicitly labeled with the date and time.  
 Required  
 DTM~582~20150608~1500

**Data Element Summary**

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

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

## Example #1 – Daily Usage for One Meter for One Day

ST\*867\*0001  
BPT\*00\*0113118073201502100001\*20150210\*DU  
N1\*8S\*AMEREN ILLINOIS\*1\*006936017  
N1\*SJ\*Electric Supplier\*1\*012345678  
N1\*8R\*CUSTOMER NAME  
REF\*12\*1234567890\*GROUPA  
REF\*LU\*12345678  
REF\*SPL\*RATE ZONE III  
PTD\*SU\*\*\*OZ\*EL  
DTM\*150\*20150209  
DTM\*151\*20150209  
REF\*NH\*DS1\*DS - Residential (DS-1)  
REF\*LO\*UNKNWN  
QTY\*QD\*23.9912\*KH  
MEA\*AA\*PRQ\*23.9912\*KH\*\*\*51  
PTD\*DL\*\*\*OZ\*EL  
DTM\*150\*20150209  
DTM\*151\*20150209  
REF\*MG\*15298224  
REF\*MT\*KH060  
REF\*JH\*A  
REF\*IX\*6.0  
REF\*4P\*000002.0000  
QTY\*QD\*.5744\*KH  
DTM\*582\*20150209\*0100  
QTY\*QD\*1.1004\*KH  
DTM\*582\*20150209\*0200  
QTY\*QD\*.5612\*KH  
DTM\*582\*20150209\*0300  
QTY\*QD\*.5316\*KH  
DTM\*582\*20150209\*0400  
QTY\*QD\*.56\*KH  
DTM\*582\*20150209\*0500  
QTY\*QD\*1.0676\*KH  
DTM\*582\*20150209\*0600  
QTY\*QD\*1.4292\*KH  
DTM\*582\*20150209\*0700  
QTY\*QD\*.6652\*KH  
DTM\*582\*20150209\*0800  
QTY\*QD\*.3708\*KH  
DTM\*582\*20150209\*0900  
QTY\*QD\*.3508\*KH  
DTM\*582\*20150209\*1000  
QTY\*QD\*.8832\*KH  
DTM\*582\*20150209\*1100  
QTY\*QD\*.352\*KH  
DTM\*582\*20150209\*1200  
QTY\*QD\*.336\*KH  
DTM\*582\*20150209\*1300  
QTY\*QD\*.3576\*KH  
DTM\*582\*20150209\*1400  
QTY\*QD\*.3296\*KH  
DTM\*582\*20150209\*1500  
QTY\*QD\*.9156\*KH  
DTM\*582\*20150209\*1600  
QTY\*QD\*.4328\*KH

DTM\*582\*20150209\*1700  
QTY\*QD\*1.7456\*KH  
DTM\*582\*20150209\*1800  
QTY\*QD\*2.2656\*KH  
DTM\*582\*20150209\*1900  
QTY\*QD\*1.1496\*KH  
DTM\*582\*20150209\*2000  
QTY\*QD\*2.1948\*KH  
DTM\*582\*20150209\*2100  
QTY\*QD\*2.0732\*KH  
DTM\*582\*20150209\*2200  
QTY\*QD\*3.1328\*KH  
DTM\*582\*20150209\*2300  
QTY\*QD\*.6116\*KH  
DTM\*582\*20150209\*2359  
SE\*72\*0001

## Example #2 – Daily Usage for One Meter for Two Days

ST\*867\*0001  
BPT\*00\*6994892018201410030001\*20150306\*DU  
N1\*8S\*AMEREN ILLINOIS\*1\*006936017  
N1\*SJ\*Supplier\*1\*111111111  
N1\*8R\*CUSTOMER NAME  
REF\*12\*1234567890\*GROUPB  
REF\*LU\*12345678  
REF\*SPL\*RATE ZONE III  
PTD\*SU\*\*\*OZ\*EL  
DTM\*150\*20150304  
DTM\*151\*20150305  
REF\*NH\*DS2\*DS - Small General Service (DS  
REF\*LO\*IDR  
QTY\*QD\*655.613\*KH  
MEA\*EE\*PRQ\*655.613\*KH\*\*\*51  
PTD\*DL\*\*\*OZ\*EL  
DTM\*150\*20150304  
DTM\*151\*20150305  
REF\*MG\*08271000  
REF\*MT\*KH060  
REF\*JH\*A  
REF\*IX\*6.0  
QTY\*KA\*4.549\*KH  
DTM\*582\*20150304\*0100  
QTY\*KA\*5.3005\*KH  
DTM\*582\*20150304\*0200  
QTY\*QD\*5.0425\*KH  
DTM\*582\*20150304\*0300  
... skipped 43 intervals  
QTY\*QD\*5.2195\*KH  
DTM\*582\*20150305\*2300  
QTY\*QD\*5.195\*KH  
DTM\*582\*20150305\*2359  
SE\*119\*0001