

Illinois

Implementation
Guide
For
Electronic
Data
Interchange

Transaction Set
ANSI ASC X12 Version 004010

867
Monthly Interval 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~PM loop is used to show usage for each interval meter. There will only be one PM loop per meter and have multiple QTY/MEA loops for the different units of measure or measurement significance codes.
- The PTD~PL loop is used to show usage for each non-interval meter. There will only be one PM loop per meter and have multiple QTY/MEA loops for the different units of measure or measurement significance codes.
- 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
- Cancels will only have the SU loop, no other loops will be sent on a cancellation.
- 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 – 400KW usage is POR eligible, but is not mass market.

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.

Daylight savings time

- ComEd operates at an Account Level only.
- On regular days the hours will show as 0100 – 2359.
- During spring DST, the hours will “skip” 0200 (0100, 0300, ...2359)
- During Fall DST, the second hour will be repeated (0100, 0200, 0200, 0300...2359)

How to Use the Implementation Guideline

Segment: **REF** Reference Identification
Position: 030
Loop: LIN
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.

This section is used to show the X12 Rules for this segment. You must look further into the grayboxes below for State Rules.

Comments:

Must be identical to account number as it appears on the customer's bill, excluding punctuation (spaces, dashes, etc.). Significant leading and trailing zeros must be included.

Request: Required
 Accept Response: Required
 Reject Response: Required

Example: REF~12~2931839200

This section is used to show the individual State's Rules for implementation of this

One or more examples.

Data Element Summary

| <u>Attributes</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>X12</u> |
|-------------------|------------------|---------------------|---|------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier | M ID 2/3 |
| | | | Code qualifying the Reference Identification | |
| | | 12 | Billing Account | |
| | | | LDC-assigned account number for end use customer. | |
| Must Use | REF02 | 127 | Reference Identification | X AN 1/30 |
| | | | Reference information as Identification Qualifier | |
| | | | for a particular Transaction Set or as specified by the Reference | |

This column shows the use of each data element. If state rules differ, this will show "Conditional" and the conditions will be explained in the appropriate grayboxes.

These are X12 code descriptions, which often do not relate to the information we are trying to send. Unfortunately, X12 cannot keep up with our code needs so we often change the meanings of existing codes. See graybox for the state definitions.

This column shows the X12 attributes for each data element. Please refer to Data Dictionary for individual state rules.
 M = Mandatory, O = Optional, X = Conditional
 AN = Alphanumeric, N# = Decimal value,
 ID = Identification, R = Real
 1/30 = Minimum 1, Maximum 30

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 | | |
| | 050 | DTM | Date/Time Reference (Document Due Date) | O | 1 | | |
| | | | | | | LOOP ID - N1 | 1 |
| M | 080 | N1 | Name (Utility) | M | 1 | | |
| | | | | | | LOOP ID - N1 | 1 |
| M | 080 | N1 | Name (RES) | M | 1 | | |
| | | | | | | LOOP ID - N1 | 1 |
| M | 080 | N1 | Name (Customer) | M | 1 | | |
| | 120 | REF | Reference Identification (RES Account Number) | O | 1 | | |
| M | 120 | REF | Reference Identification (Utility Account Number) | M | 1 | | |
| | 120 | REF | Reference Identification (Service Point Identifier) | O | 1 | | |
| M | 120 | REF | Reference Identification (Billing Presenter) | M | 1 | | |
| M | 120 | REF | Reference Identification (Bill Calculator) | M | 1 | | |

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 |
| | 010 | PTD | Product Transfer and Resale Detail (Summary) | O | 1 | | |
| D | 020 | DTM | DTM (Service Period Start) | O | 1 | | |
| D | 020 | DTM | DTM (Service Period End) | O | 1 | | |
| | | | | | | LOOP ID - QTY | >1 |
| D | 110 | QTY | Quantity | O | 1 | | |
| | | | | | | LOOP ID - PTD | >1 |
| | 010 | PTD | Product Transfer and Resale Detail (Metered Services Detail) | O | 1 | | |
| D | 020 | DTM | DTM (Meter Change Date) | O | 1 | | |
| D | 020 | DTM | DTM (Service Period Start) | O | 1 | | |
| D | 020 | DTM | DTM (Service Period End) | O | 1 | | |
| D | 030 | REF | REF (Meter Number) | O | 1 | | |
| | | | | | | LOOP ID - QTY | >1 |
| | 110 | QTY | Quantity | F | 1 | | |

| | | | | | | |
|---|-----|-----|---|---|----|--|
| | 210 | DTM | Date/Time Reference (Report Period) | O | 10 | |
| | | | LOOP ID - PTD | | >1 | |
| | 010 | PTD | Product Transfer and Resale Detail (Non-Interval Metered Services Detail) | O | 1 | |
| D | 020 | DTM | DTM (Meter Change Date) | O | 1 | |
| D | 020 | DTM | DTM (Service Period Start) | O | 1 | |
| D | 020 | DTM | DTM (Service Period End) | O | 1 | |
| D | 030 | REF | REF (Meter Number) | O | 1 | |
| | 030 | REF | REF (Utility Rate Class) | O | 1 | |
| | 030 | REF | REF (Load Profile Class) | O | 1 | |
| | 030 | REF | REF (Supply Group) | O | 1 | |
| | 030 | REF | REF (Meter Role) | O | 20 | |
| | | | LOOP ID - QTY | | >1 | |
| | 110 | QTY | Quantity | F | 1 | |
| | 160 | MEA | Measurements (Readings) | O | 40 | |
| | | | LOOP ID - PTD | | >1 | |
| | 010 | PTD | Product Transfer and Resale Detail (Unmetered Services Summary) | O | 1 | |
| D | 020 | DTM | DTM (Service Period Start) | O | 1 | |
| D | 020 | DTM | DTM (Service Period End) | O | 1 | |
| | | | LOOP ID - QTY | | >1 | |
| D | 110 | QTY | Quantity | O | 1 | |

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~C1

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 | M ID 2/2 |
| | | | 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. | |
| 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 | M ID 2/2 |
| | | | C1 Cost Data Summary Indicates transaction is an Interval Data transaction. This will be used whether supplier is receiving summary data only or both summary and detail interval data. | |
| | | | DR Datalog Report Mixed Values - Transaction contains data for both interval and non-interval meters | |
| 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 meter reading party sends an 867 to the non-billing party, who calculates their own portion of the bill and sends the 810 to the billing party. Must be expressed in Central Time. Not provided on cancel transaction.
 DTM~649~20091225~2359

Data Element Summary

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

Segment: **N1** Name (Utility)
Position: 080
Loop: N1 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>Name</u> | <u>Attributes</u> |
|----------|-------------|----------------|--|-------------------|
| | <u>Des.</u> | <u>Element</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 | 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 Utility D-U-N-S or D-U-N-S+4 Number | M AN 9/13 |

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> | | |
| 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 POR Eligibility Group ComEd will use: TO BE DETERMINED GROUPA Ameren POR Eligibility Group A GROUPB Ameren POR Eligibility Group B NONPOR Account not eligible for POR | 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 number. 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 Code qualifying the Reference Identification LU Location Number Service Point Identifier | 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 Service Point Identifier | M AN 1/30 |

Segment: **REF** Reference Identification (Billing 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 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: **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. 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

SU

Summary

This will be the total of all PM 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: 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:

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 Estimated |
| | | | | Used when Quantity in QTY02 is Actual Reading |
| Must Use | QTY02 | 380 | Quantity Numeric value of quantity | M R 1/15 |
| | | | | Represents quantity of consumption delivered for service period |
| Must Use | QTY03 | C001 | Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use) | M |
| Dep | 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 K3 Kilovolt Amperes Reactive Hour KH Kilowatt Hour | O ID 2/2 |
| | | | | KH |
| | | | | KVARH |
| | | | | KWH |

Segment: **PTD** Product Transfer and Resale Detail (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 metered account.

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

Data Element Summary

| | <u>Ref.</u> | <u>Data</u> | <u>Name</u> | <u>Attributes</u> |
|-----------------|-------------|----------------|---|----------------------------|
| <u>Must Use</u> | <u>Des.</u> | <u>Element</u> | | |
| | 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 type of consumption for every unit of measure 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 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~151~20081231

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: 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 Code specifying the type of quantity KA Estimated QD Quantity Delivered | M ID 2/2 |
| Must Use | QTY02 | 380 | Quantity Numeric value of quantity | 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 |
| Dep | 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 | O 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. The time is always expressed in Central Prevailing Time Required
 DTM~582~20081215~1500~CT

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: **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 there is non-interval meter(s) and interval meters on the same account/service

A PL loop will be provided for each type of consumption for every unit of measure for each non-interval meter on the account/service location.

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 |
| | | | Non-Interval usage data |

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 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~151~20081231

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 (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~GS1~Large-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 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 Additional detail on the Rate Class | O AN 1/80 |

Segment: **REF** REF (Load Profile 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~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 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 Load Profile Class | M AN 1/30 |

Segment: **REF** REF (Supply Group)
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:

Note: Supply group will be shown in REF03 due to the length of the supply group names.
ComEd: Required
Ameren: Not Used
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 | REF02 | 127 | Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Supply Group | 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: 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 Code specifying the type of quantity KA Estimated QD Quantity Delivered | M ID 2/2 |
| Must Use | QTY02 | 380 | Quantity Numeric value of quantity | 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 |
| Dep | 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 | O ID 2/2 |

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~1000~1087~51

MEA~AA~PRQ~15.7~K1~~15.7~51

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 | X R 1/20 |
| Must Use | MEA06 | 741 | Range Maximum The value specifying the maximum of the measurement range Ending Read | M R 1/20 |

| | | | | |
|-----------------|--------------|------------|---|-----------------|
| 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.

PTD~BC

Data Element Summary

| | <u>Ref.</u> | <u>Data</u> | <u>Name</u> | <u>Attributes</u> |
|-----------------|-------------|----------------|----------------------------|-------------------|
| <u>Must Use</u> | <u>Des.</u> | <u>Element</u> | | |
| | 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 each unmetered service 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 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~151~20081231

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: 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.
 QTY~QD~150~KH

Data Element Summary

| | <u>Ref.</u> | <u>Data</u> | <u>Name</u> | <u>Attributes</u> |
|----------|-------------|----------------|--|-------------------|
| | <u>Des.</u> | <u>Element</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 |
| Dep | 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 | O ID 2/2 |

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 |

Monthly Interval Usage Examples:

General Note:

For the detail portion, the PTD loops can be sent in any order as this is a function of ANSI. The indicator in the PTD loop tells what information is contained in the loop.

One Meter interval, 1 meter non-interval and one BC loop

| 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 , Transaction Date: 20081201 . Report Type Code: C1 , <i>Interval Usage</i> |
| DTM~649~20091225~1500 | Date Qualifier: 649 , <i>Document due date</i> , Date, 20091225 Time, 1500 |
| N1~8S~Utility Company~1~123456789 | Entity Identifier: 8S , <i>Utility indicator</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 indicator</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 Indicator</i> , Name: Customer Name , <i>Customer Name</i> |
| REF~11~1234567890 | Reference Identifier: 11 , <i>RES Account Number Indicator</i> , Number: 1234567890 , <i>RES Account Number</i> |
| REF~12~0123456789~GROUPA | Reference Identifier: 12 , <i>LDC Account Number Indicator</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</i> , Number: 00034180 , <i>Service Point Number</i> |
| REF~BLT~DUAL | Reference Identifier: BLT , <i>Bill Presenter</i> , Code: DUAL , <i>Dual Billing</i> |
| REF~PC~DUAL | Reference Identifier: PC , <i>Billing Party</i> , Code: DUAL , <i>Dual Calculation</i> |
| PTD~SU | Monthly Billed Summary loop |
| DTM~150~20080901 | Date Qualifier: 150, <i>Service Period Start</i> , Date 20080901 |
| DTM~151~20081010 | Date Qualifier: 151, <i>Service Period End</i> , Date 20081001 |
| QTY~QD~178623~KH | Quantity Qualifier: QD , <i>Quantity Delivered</i> , Quantity 178623 , Unit of measure KH , <i>Kilowatt Hour</i> |
| QTY~QD~148.5~K1 | Quantity Qualifier: QD , <i>Quantity Delivered</i> , Quantity 148.5 , Unit of measure K1 , <i>Kilowatt Demand</i> |
| PTD~PM | Interval Meter detail loop |
| DTM~150~20080901 | Date Qualifier: 150, <i>Service Period Start</i> , Date 20080901 |
| DTM~151~20081010 | Date Qualifier: 151, <i>Service Period End</i> , Date 20081001 |
| REF~MG~12345 | Reference Identifier: MG , <i>Meter Number Indicator</i> , Number: 12345 , <i>Meter Number</i> |
| QTY~QD~22~KH | Quantity Qualifier: QD , <i>Quantity Delivered</i> , Quantity 22 , Unit of measure KH , <i>Kilowatt Hour</i> |
| DTM~582~20080901~0100~CT | Date Qualifier: 582, End date and time qualifier, Date 20080901 , Time: 0100 , Time Zone: CT |
| QTY~QD~24~KH | Quantity Qualifier: QD , <i>Quantity Delivered</i> , Quantity 24 , Unit of measure KH , <i>Kilowatt Hour</i> |

| | |
|--|---|
| DTM~582~20080901~0200~CT | Date Qualifier: 582, End date and time qualifier, Date 20080901 , Time: 0200 , Time Zone: CT |
| ...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> |
| DTM~582~20080930~2359~CT | Date Qualifier: 582, End date and time qualifier, Date 20080930 , Time: 2359 , Time Zone: CT |
| PTD~PL | Non-Interval Meter detail loop |
| DTM~150~20080901 | Date Qualifier: 150, <i>Service Period Start</i> , Date 20080901 |
| DTM~151~20081010 | Date Qualifier: 151, <i>Service Period End</i> , Date 20081001 |
| REF~MG~12346 | Reference Identifier: MG , <i>Meter Number Indicator</i> , Number: 12346 , <i>Meter Number</i> |
| REF~NH~GS1~Large | Reference Identifier: NH , <i>Utility Rate Class Indicator</i> , Number: GS1 , <i>Utility Rate Class</i> , Description: Large-GS |
| REF~LO~GS | Reference Identifier: GS , <i>Load Profile Class Indicator</i> , Number: GS , <i>Load Profile Class</i> |
| REF~PTC~~Self-Generating | Reference Identifier: GS , <i>Supply Group Indicator</i> , Number: Self-Generating , <i>Supply Group Indicator</i> |
| REF~JH~A | Reference Identifier: JH , <i>Meter Role Indicator</i> , Number: A , <i>Meter Role</i> |
| QTY~QD~22~KH | Quantity Qualifier: QD , <i>Quantity Delivered</i> , Quantity 22 , Unit of measure KH , <i>Kilowatt Hour</i> |
| MEA~AA~PRQ~22~KH~1055~1077~51 | Measurement Reference: AA , <i>Reading Type</i> , Measurement Qualifier: PRQ , <i>Consumption</i> , Measurement Value: 22 , <i>Consumption</i> , Unit of Measure, KH , <i>Kilowatt Hour</i> , Beginning Read, 1055 , <i>Beginning Read</i> , Ending Read, 1077 , <i>Ending Read</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~~18.5~51 | 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> . |
| PTD~BC | Unmetered detail loop |
| DTM~150~20080901 | Date Qualifier: 150, <i>Service Period Start</i> , Date 20080901 |
| DTM~151~20081010 | Date Qualifier: 151, <i>Service Period End</i> , Date 20081001 |
| QTY~QD~1~KH | Quantity Qualifier: QD , <i>Quantity Delivered</i> , Quantity 1 , Unit of measure KH , <i>Kilowatt Hour</i> |
| SE~130~00000001 | Transaction Trailer |