

**Pennsylvania
New Jersey
Delaware
Maryland**

Implementation Guideline

For

Electronic Data Interchange

TRANSACTION SET

814

Reinstatement

Request and Response

Ver/Rel 004010

Table of Contents

Summary of Changes.....4

General Notes7

How to Use the Implementation Guideline8

X12 Structure.....9

Data Dictionary for 814 Reinstatement10

Segment: ST Transaction Set Header16

Segment: BGN Beginning Segment17

Segment: N1 Name (8S=LDC Name)18

Segment: N1 Name (SJ=ESP Name).....19

Segment: N1 Name (G7=Renewable Energy Provider Name).....20

Segment: N1 Name (8R=Customer Name)21

 Segment: N3 Address Information22

 Segment: N4 Geographic Location.....23

 Segment: PER Administrative Communications Contact.....24

Segment: N1 Name (BT=Billing Address).....25

 Segment: N3 Address Information26

 Segment: N4 Geographic Location.....27

 Segment: PER Administrative Communications Contact.....28

Segment: N1 Name (PK=Party to Receive Copy of Notices).....29

 Segment: N3 Address Information30

 Segment: N4 Geographic Location.....31

 Segment: PER Administrative Communications Contact.....32

Segment: N1 Name (2C=Party to Receive Copy of Bills).....33

 Segment: N3 Address Information34

 Segment: N4 Geographic Location.....35

 Segment: PER Administrative Communications Contact.....36

Segment: LIN Item Identification37

Segment: ASI Action or Status Indicator.....38

Segment: REF Reference Identification (7G=Rejection Reason).....39

Segment: REF Reference Identification (11=ESP Account Number)41

Segment: REF Reference Identification (12=LDC Account Number)42

Segment: REF Reference Identification (45=LDC Old Account Number)43

Segment: REF Reference Identification (4N=Payment Arrangement).....44

Segment: REF Reference Identification (BF=LDC Bill Cycle).....45

Segment: REF Reference Identification (BLT=Billing Type).....46

Segment: REF Reference Identification (PC=Bill Calculator)47

Segment: REF Reference Identification (NR=LDC Budget Billing Status).....48

Segment: REF Reference Identification (SPL=PJM LMP Bus)49

Segment: REF Reference Identification (17=Summary Interval).....50

Segment: REF Reference Identification (KY=Special Meter Configuration)51

Segment: DTM Date/Time Reference (007=Effective Date)52

Segment: DTM Date/Time Reference (150=Service Start Date).....53

Segment: AMT Monetary Amount (7N=Participating Interest).....54

Segment: AMT Monetary Amount (QY=Eligible Load Percentage)55

Segment: AMT Monetary Amount (DP=Tax Exemption Percent)56

Segment: AMT Monetary Amount (F7=Tax Exemption Percent-State Sales Tax).....57

Segment: AMT Monetary Amount (5J=Load Management Device – Air Conditioner)58

Segment: AMT Monetary Amount (L0=Load Management Device – Water Heater)59

Segment: AMT Monetary Amount (KC=Peak Load Capacity).....60

Segment: AMT Monetary Amount (KZ=Network Service Peak Load)61

Segment: NM1 Individual or Organizational Name62

 Segment: REF Reference Identification (LF=Loss Factor)63

 Segment: REF Reference Identification (LO=Load Profile)64

 Segment: REF Reference Identification (NH=LDC Rate Class)65

 Segment: REF Reference Identification (PR=LDC Rate Subclass).....66

 Segment: REF Reference Identification (RB=ESP Rate Code).....67

 Segment: REF Reference Identification (SV=Service Voltage).....68

Segment: REF Reference Identification (TZ=Meter Cycle)69
Segment: REF Reference Identification (MT=Meter Type)70
Segment: REF Reference Identification (4P=Meter Multiplier).....72
Segment: REF Reference Identification (IX=Number of Dials/Digits).....73
Segment: REF Reference Identification (TU=Type of Metering)74
Segment: SE Transaction Set Trailer.....75
814 Reinstatement Examples:.....76
 Example: Reinstatement Request76
 Example: Reinstatement Response – Accepted79
 Example: Reinstatement Response – Rejected79
 Example: Reinstatement Request for Renewable Energy Provider79

| Summary of Changes | |
|---|---|
| <p>June 12, 1999 Version 1.0</p> | <ul style="list-style-type: none"> • Added clarification that Rockland Electric’s system maintains the duplicate bill and notice to third party. • Added information about an LDC informing the ESP how the LDC will transmit interval data; at the summary level via an 867IU (if this was supported by the LDC at the account level and previously requested by the ESP), or at the detail level (867IU). If the account is not an interval account, this segment (REF*17) is not sent. Note: This option may not be offered at the account level by all LDCs – some LDCs may only offer it for all customers of an ESP. <p>Transaction is considered FINAL in Pennsylvania. Please note that the codes used for request summary information for an interval account still need to be approved by UIG. There is a small chance the ‘value’ used may change, but the method will not and therefore, it should not impact programming efforts.</p> |
| <p>June 29, 1999 Version 2.0</p> | <ul style="list-style-type: none"> • Issued as FINAL for New Jersey. • Changed “EGS” to “ESP” and “EDC” to “LDC” throughout the guideline. Removed “NJ Definitions” and replaced it with “LDC Definitions” and “ESP Definitions” in the Notes section. • Changed LIN01 to say that the tracking number must be unique over all time. • Corrected LIN03 to “Identifies the product” instead of “Indicates a customer request to obtain Electric Service” • Corrected spelling errors and formatting. • Added “How to use the implementation guideline” page. In addition, changed all headers to the true X12 definition... correcting some mistakes that were missed in 4010. Also corrected the Table on Page 4 to reflect X12 definitions and added the words "X12 Structure" to the title on that page. • Added LIN Notes from Enrollment • Added examples (Zip+4 on N4, FX & EM on PER, etc.) • Updated rules for rejection reason codes. • Combined “PA Implementation” with “PA Use” • Changed REF*MT - “This segment must also be sent when account has UNMETERED services available for generation service For UNMETERED services, the segment will typically be REF*MT*KHMON.” to “This segment will not be provided in the NM1 loop for UNMETERED services.” • Changed REF*TU text to: "This is provided for UNMETERED services and reflects the type of usage that is reported on the 867". • Changed Note from "One 814 per Account" to "One Account per 814". • Removed the following note from all QTY02 elements: " Note that a more appropriate segment would be the QTY (quantity), however until we can petition X12 to add a QTY segment to the 814, we must use the AMT segment" |
| <p>July 2, 1999 Version 2.1</p> | <p>Re-released as a result of changes to the data dictionary.</p> |
| <p>July 14, 1999 Version 2.2</p> | <p>Change Control Process Change #001:</p> <ul style="list-style-type: none"> • Corrected On/Off Peak in REF*TU and examples. The codes 41 and 42 were reversed. • Corrected X12 code description for REF*IX to “Item Number” |
| <p>October 1, 1999 DRAFT Version 2.2b</p> | <ul style="list-style-type: none"> • Added Delaware (Delmarva) as tentative use • Allowed DTM03/04 on DTM*007 to be optional • Clarified use of “Combo” and also not sending “COMBO” in REF03 for meter attributes • Clarified sending of load profile • Corrected some X12 descriptions • Clarified sending of Capacity (AMT*KC) and Transmission information (AMT*KZ) • Moved notes from Data Dictionary to Implementation Guide • Clarified sending of REF*17 for PA. |

| | |
|---------------------------------------|---|
| November 4, 1999 Version 2.3 | This is a FINAL version for Pennsylvania and New Jersey |
| November 1999 Draft version 2.3MD1 | <ul style="list-style-type: none"> • Add Maryland use to document – the changes were added to the version 2.3 of the regional standards • Added Data Dictionary • Added Table of Contents <p>Maryland Open Items</p> <ul style="list-style-type: none"> - AMT*DP – need ability to indicate what taxes the tax exemption percent applies to - Need ability to indicate load cycling device - Need ability to indicate customer is on special billing cycle (every other month) - APS - Several other fields specific utilities were looking into |
| December 23, 1999 Version 2.3MD2 | <ul style="list-style-type: none"> • Modified Data Dictionary Customer Name and Billing Name length to allow for 60 for Maryland • Clarified APS use of N1*2C (Party to Receive Copy of Bills) • Clarified use of REF*NR for Maryland utilities • Added 4 new AMT segments for the Maryland taxes (AAO-Local/County tax, BAK-Franchise tax, F7-State Sales Tax, N8-Environmental tax) • Added 2 new AMT segments for Load Management program (L0-Water Heater, 5J-Air Conditioners) |
| February 24, 2000 Version 2.3MD3 | <ul style="list-style-type: none"> • Clarified County field for N1*8R for Maryland • Added City tax for MD • Clarified use of Old Account Number (REF*45) |
| March 31, 2000 Version 2.3MD4 | This document is finalized for MD |
| March 31, 2000 Version 2.3MD5 | Corrected LIN examples from LIN*SH to LIN*1*SH |
| May 14, 2000 Version 2.4 | <ul style="list-style-type: none"> • Incorporate PA Change Request X022 – Add clarification to Bill Cycle (REF*BF) as it relates to summary billing • Incorporate MD Change Control M001 – Several tax exemption segments had been added for MD use. After further review, it was determined they are not needed to support generation charges. As MD was only state using these segments, the segments will be removed from the document. They are AMT*C (City Tax), AMT*BAK (Franchise Tax), AMT*AAO (County/Local Tax) and the AMT*N8 (Environmental Tax) segments. • This document is a new finalized version of PA and MD. NJ is still using Version 2.3. |
| August 11, 2000 Version 2.4a | <ul style="list-style-type: none"> • REF*BF – modify NJ Use to reflect what use is. Note that had been added for PA was only addressed for PA. Indicate DE Delmarva and MD as same as NJ. • Indicate PSEG does not provide Bill Address information (N1*BT). • Change LIN*1 to LIN*23451 to minimize confusion with people thinking this is a counter within the transaction. • Add clarification to PSEG sending of City / State in N4 segment in N1*8R loop |
| September 10, 2000 Version 2.5 | This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware (Delmarva only). |
| October 19, 2001 Version 2.5rev01 | <ul style="list-style-type: none"> • Incorporate Delaware Electric Coop (DEC) information for Delaware • Incorporate PA Change Control 029 – ESP Account number should exclude punctuation, and must include significant leading and trailing zeros. • Correct Data Element number (352) for REF03 in REF*BF and REF*SPL segments |
| December 13, 2001 Version 2.5rev02 | Incorporate PA Change Control 038 - indicate AMT*7N and AMT*QY will always be 100% for PA. Also, change PP&L to PPL EU. |
| January 9, 2002 Version 3.0 | This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware. |
| April 12, 2005 Version 3.01PA | <ul style="list-style-type: none"> ▪ Incorporate PA Change Control 042 - Modify language throughout EDEWG 814 change, enrollment, & reinstatement transactions to agree with the data dictionary for the LIN. Wording change is related to removal of word 'obligation' and |

| | |
|-------------------------------------|--|
| | <ul style="list-style-type: none"> ▪ replacement with '<i>contribution</i>'. ▪ Updated Grey Box example for REF*SPL – PJM LMP Bus |
| January 18, 2006 Version 3.0.2D | <ul style="list-style-type: none"> ▪ Incorporate NJ Change Control 003 (Update transaction to reflect actual practices) ▪ Incorporate NJ Change Control 005 (NJ CleanPower program changes) |
| October 23, 2006 Version 3.0.3D | <ul style="list-style-type: none"> ▪ Incorporate NJ Change Control 008 to reflect NJ CleanPower – unmetered usage for RECO) • Incorporate NJ Change Control 009 to reflect NJ CleanPower change for partial usage. |
| February 12, 2007 Version 3.0.4F | <ul style="list-style-type: none"> ▪ Considered FINAL for PA and NJ |
| February 22, 2009 Version 3.0.5D | <ul style="list-style-type: none"> ▪ Incorporate NJ Change Control PSEF-E-REF45 |
| January 24, 2010 Version 3.1 | This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware. |
| September 8, 2010 Version 3.1.1D | <ul style="list-style-type: none"> • Incorporate PA Change Control 060 (Admin/Cleaup CC for PA) • Incorporate PA Change Control 073 (Modify language throughout EDEWG 814 change, enrollment, & reinstatement transactions to update wording of AMT*KC and AMT*KZ to reflect appropriate PJM terminology. AMTKC = PLC & AMTKZ=NSPL |
| February 28, 2011 Version 4.0 | This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware. |
| February 16, 2012 Version 4.01 | <ul style="list-style-type: none"> • Incorporate PA Change Control 085 (REF*KY) • Incorporate PA Change Control 090 (REF03 in REF*KY) • Incorporate PA Change Control 093 (Admin Updates) • Incorporate MD Change Control 010 (PEPCO AMI/Smart Meter Support) |
| March 8, 2013 Version 6.0 | <ul style="list-style-type: none"> • Moving to v6.0 to align versions across all transaction sets • Cleaned up references to Allegheny and APS throughout document • Incorporate PA Change Control 095 (REF03 in REF*KY) • Incorporate PA Change Control 096 (clarify AMT*DP) • Incorporate PA Change Control 097 (PECO Summary/Interval Support) • Incorporate PA Change Control 102 (increase REF*BF length in Data Dictionary) • Incorporate MD Change Control 014 (make REF*LF & REF*SV same as PA) |
| March 17, 2014 Version 6.1 | <ul style="list-style-type: none"> • Incorporate MD Change Control 023 (PHI new CIS, changes to 814R) • Incorporate MD Change Control 030 (Net Meter Indicator in REF*KY) • Incorporate NJ Change Control Electric 021 (ACE new CIS, changes to 814R) • Incorporate NJ Change Control Electric 015 (Net Meter Indicator in REF*KY) • Incorporate NJ Change Control Electric 031 (Remove Rockland from Guide) • Incorporate NJ Change Control Electric 032 (PSE&G Review Updates) |
| February 18, 2015 | <ul style="list-style-type: none"> • Incorporate PA Change Control 118 (EGS response optional) |

| General Notes | |
|--|--|
| Use | <ul style="list-style-type: none"> • The Reinstatement Request can be used for any of the following situations: <ul style="list-style-type: none"> • Customer Contacts LDC to Rescind (LDC sends Reinstatement to previous active ESP) • Customer Contacts LDC to Rescind, alleging a slam (LDC sends Reinstatement to previous pending ESP) • LDC reinstates customer after a temporary drop |
| Tracking number on Request and Response transactions | On the request, the LIN01 is a unique tracking number for each line item (LIN) in this transaction. This number must be unique over all time, and is assigned by the sender of the request transactions. This number must be returned on the response transaction (accept or reject), in the same element (LIN01). |
| Initiated by LDC | This transaction can only be initiated by the LDC. The customer will need to contact the LDC to rescind a switch. |
| Information Provided | When the LDC sends the Reinstatement to the ESP, it will contain much of the same information as the original 814 Enrollment Response. The reason for this is to allow the ESP to verify all of the information about the ESP/Customer information relationship. |
| One Account per 814 | One customer account per 814. |
| Multiple LINs | For the Reinstatement transaction, there may only be one LIN per account per 814. |
| Response per LIN | There will be one 814 Reinstatement response for each 814 Reinstatement request. In Pennsylvania it's the option of the EGS to send the drop response to LDC imitated drop requests. The 997 Functional Acknowledgement is required by all parties. In the event the EGS opts out of sending the 814 response, the 997 becomes more critical being the proof the EGS processed the utility request. |
| Echoing Data on Reject | If a transaction is rejected due to invalid information, the Response may echo back the invalid data along with the reason code. |
| Temporary Drop | If there was an 814D for temporary reasons, the contract should be reactivated by sending a reinstatement (814R). |
| LDC Definitions: | <p>The term LDC (Local Distribution Company) in this document refers to the utility. Each state may refer to the utility by a different acronym:</p> <ul style="list-style-type: none"> • EDC – Electric Distribution Company (Pennsylvania, Delaware) • LDC – Local Distribution Company (New Jersey) • EC – Electric Company (Maryland) |
| ESP Definitions: | <p>The term ESP (Energy Service Provider) in this document refers to the supplier. Each state may refer to the supplier by a different acronym:</p> <ul style="list-style-type: none"> • EGS – Electric Generation Supplier (Pennsylvania) • TPS – Third Party Supplier (New Jersey) • ES – Electric Supplier (Delaware) • ES – Electricity Supplier (Maryland) |
| Renewable Energy Provider Definition: | <p>The term Renewable Energy Provider in this document refers to the party that provides Renewable Energy Credits (RECs). This party does not provide generation to the account. Each state may refer to the Renewable Energy Provider by a different acronym:</p> <ul style="list-style-type: none"> • GPM – Green Power Marketer (New Jersey) <p>Note: The transaction will either have an ESP or a Renewable Energy Provider, but not both.</p> |
| New Jersey Notes | |
| Rockland Electric Co (RECO) | Rockland Electric Co. does not follow this regional EDI implementation guideline. Instead RECO utilizes the New York EDI standards. |

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.

| | |
|-----------------|--|
| Notes: | Recommended by UIG |
| PA Use: | 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 |
| NJ Use: | Same as PA |
| Example: | REF*12*2931839200 |

The "Notes:" section generally contains notes by the Utility Industry Group (UIG).

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

One or more examples.

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>X12 Attributes</u> |
|----------|------------------|---------------------|---|-----------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification 12 Billing Account LDC assigned account number for end use customer. | 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 | X AN 1/30 |

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 UIG or 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

814 General Request, Response or Confirmation X12 Structure

Functional Group ID=**GE**

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> |
|----------|-----------------|----------------|---------------------------------------|------------------|-----------------|--------------------|---------------------------|
| Must Use | 010 | ST | Transaction Set Header | M | 1 | | |
| Must Use | 020 | BGN | Beginning Segment | M | 1 | | |
| | | | LOOP ID - N1 | | | >1 | |
| | 040 | N1 | Name | O | 1 | | n1 |
| | 060 | N3 | Address Information | O | 2 | | |
| | 070 | N4 | Geographic Location | O | 1 | | |
| | 080 | PER | Administrative Communications Contact | O | >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 - LIN | | | >1 | |
| | 010 | LIN | Item Identification | O | 1 | | |
| | 020 | ASI | Action or Status Indicator | O | 1 | | |
| | 030 | REF | Reference Identification | O | >1 | | |
| | 040 | DTM | Date/Time Reference | O | >1 | | |
| | 060 | AMT | Monetary Amount | O | >1 | | |
| | | | LOOP ID - NM1 | | | >1 | |
| | 080 | NM1 | Individual or Organizational Name | O | 1 | | |
| | 130 | REF | Reference Identification | 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> |
|----------|-----------------|----------------|-------------------------|------------------|-----------------|--------------------|---------------------------|
| Must Use | 150 | SE | Transaction Set Trailer | M | 1 | | |

Transaction Set Notes:

1. The N1 loop is used to identify the transaction sender and receiver.

Data Dictionary for 814 Reinstatement

| <i>Reinstatement of Generation Services Request and Response Data Dictionary</i> | | | | | |
|--|---------------------------------------|--|--------------------|--|---------------------------------|
| <i>Appl Field</i> | <i>Field Name</i> | <i>Description</i> | <i>EDI Segment</i> | <i>Loop / Related EDI Qualifier</i> | <i>Data Type</i> |
| 1 | Transaction Set Purpose Code | Request = 13 Response = 11 | BGN01 | | X(2) |
| 2 | Transaction Reference Number | A unique transaction identification number assigned by the originator of this transaction. This number must be unique over all time. | BGN02 | BGN01 = Request: 13 Response: 11 | X(30) |
| 3 | System Date | Date that the data was processed by the sender's application system. | BGN03 | | 9(8) |
| 4 | Original Transaction Reference Number | Transaction Reference Number echoed from the Original Request Transaction. | BGN06 | | X(30) |
| 5 | LDC Name | LDC's Name | N102 | N1: N101 = 8S | X(60) |
| 6 | LDC Duns | LDC's DUNS Number or DUNS+4 Number | N104 | N1: N101 = 8S N103 = 1 or 9 N106 = 40 or 41 | X(13) |
| 7 | ESP Name | ESP's Name | N102 | N1: N101 = SJ | X(60) |
| 8 | ESP Duns | ESP's DUNS Number or DUNS+4 Number | N104 | N1: N101 = SJ N103 = 1 or 9 N106 = 40 or 41 | X(13) |
| 8.3 | Renewable Energy Provider Name | Renewable Energy Provider's Name | N102 | N1: N101 = G7 | X(60) |
| 8.4 | Renewable Energy Provider Duns | Renewable Energy Provider's DUNS Number or DUNS+4 Number | N104 | N1: N101 = G7 N103 = 1 or 9 N106 = 40 or 41 | X(13) |
| 9 | Customer Name | Customer Name as it appears on the Customer's Bill | N102 | N1: N101 = 8R | X(35) Note: X(60) for MD |
| 10 | Customer Reference Number | A reference number assigned by and meaningful to the customer. An example would be Store number | N104 | N1: N101 = 8R N103 = 1 or 9 | X(30) |
| 11 | Service Address | Customer Service Address | N301 & N302 | N1: N101 = 8R | X(55) |
| 12 | City | Customer Service Address | N401 | N1: N101 = 8R | X(30) |
| 13 | State | Customer Service Address | N402 | N1: N101 = 8R | X(2) |
| 14 | Zip Code | Customer Service Address | N403 | N1: N101 = 8R | X(9) |
| 15 | County | Customer Service County | N406 | N101 = 8R N405 = CO | X(30) |
| 16 | Customer Contact Name | Customer Contact Name | PER02 | PER01= IC | X(60) |
| 17 | Customer Telephone Number | Contact Telephone Number for the customer | PER04 | N1: N101 = 8R PER01 = IC PER03 = TE | X(10) |

| | | | | | |
|----|---|--|-------------|--|--------------------------------|
| 18 | Customer Billing Name | Name on Billing Address | N102 | N1: N101 = BT | X(35) Note: X(60) for MD |
| 19 | Customer Billing Street Address | Customer Billing Address | N301 & N302 | N1: N101 = BT | X(55) |
| 20 | Billing City | Customer Billing Address | N401 | N1: N101 = BT | X(30) |
| 21 | Billing State | Customer Billing Address | N402 | N1: N101 = BT | X(2) |
| 22 | Billing Zip Code | Customer Billing Address | N403 | N1: N101 = BT | X(9) |
| 23 | Billing Country Code | Customer Billing Address | N404 | N1: N101 = BT | X(3) |
| 24 | Billing Contact Name | Billing Contact Name | PER02 | PER01= IC | X(60) |
| 25 | Billing Telephone # | Contact Telephone Number related to this billing address | PER04 | N1: N101 = BT PER01 = IC PER03 = TE | X(10) |
| 26 | Third Party Name for copies of notices | Name for Third Party to receive copies of notices | N102 | N1: N101 = PK | X(35) |
| 27 | Street Address | Address for Third Party to receive copies of notices | N301 & N302 | N1: N101 = PK | X(55) |
| 28 | City | Address for Third Party to receive copies of notices | N401 | N1: N101 = PK | X(30) |
| 29 | State | Address for Third Party to receive copies of notices | N402 | N1: N101 = PK | X(2) |
| 30 | Zip Code | Address for Third Party to receive copies of notices | N403 | N1: N101 = PK | X(9) |
| 31 | Country Code | Address for Third Party to receive copies of notices | N404 | N1: N101 = PK | X(3) |
| 32 | Third Party Name Contact Name for Copies of Notices | Third Party Name Contact Name for Copies of Notices | PER02 | PER01= IC | X(60) |
| 33 | Telephone Number | Contact for Third Party to receive copies of notices | PER04 | N1: N101 = PK PER01 = IC PER03 = TE | X(10) |
| 34 | Third Party Name for copies of bills | Name for Third Party to receive copies of bills | N102 | N1: N101 = 2C | X(35) |
| 35 | Street Address | Address for Third Party to receive copies of bills | N301 & N302 | N1: N101 = 2C | X(55) |
| 36 | City | Address for Third Party to receive copies of bills | N401 | N1: N101 = 2C | X(30) |
| 37 | State | Address for Third Party to receive copies of bills | N402 | N1: N101 = 2C | X(2) |
| 38 | Zip Code | Address for Third Party to receive copies of bills | N403 | N1: N101 = 2C | X(9) |
| 39 | Country Code | Address for Third Party to receive copies of bills | N404 | N1: N101 = 2C | X(3) |
| 40 | Third Party Contact Name for copies of bills | Name for Third Party Contact to receive copies of bills | N102 | N1: N101 = 2C | X(35) |
| 41 | Telephone Number | Contact for Third Party to receive copies of bills | PER04 | N1: N101= 2C PER01 = IC PER03 = TE | X(10) |
| 42 | Line Item Transaction Reference Number | Unique Tracking Number for each line item in this transaction. This number must be unique over time. | LIN01 | | X(20) |

| | | | | | |
|--|---|--|--|---|-------|
| 43 | Generation Services Indicator or Renewable Energy Certificate Service | Indicates a customer request to: CE - switch to the designated ESP with which he or she has signed a contract for generation services RC – enroll with a Renewable Energy Provider | LIN05 = CE or RC | LIN02 = SH LIN03 = EL LIN04 = SH | X(2) |
| 44 | Action Code | Indicates that the transaction is a request, or whether this transaction has been accepted or rejected. | ASI01= Request: 7 Accept Response: WQ Reject Response: U | LIN: | X(2) |
| <i>Note that the following REF segments may appear in any order on the actual EDI transaction.</i> | | | | | |
| 50 | Rejection Reason Code | Code explaining reason for rejection. | REF02 | LIN: REF01= 7G | X(3) |
| 51 | Rejection Reason Text | Text explaining rejection. | REF03 | LIN: REF01= 7G | X(80) |
| 52 | ESP Account Number | ESP Customer Account Number | REF02 | LIN: REF01= 11 | X(30) |
| 53 | LDC Account Number | LDC Customer Account Number | REF02 | LIN: REF01= 12 | X(30) |
| 53.2 | LDC Account Number - unmetered | LDC Customer Account Number – Unmetered | REF03 | N1: N101 = 8R REF01 = 12 REF03 = U | X(80) |
| 54 | Old Account Number | Previous LDC Customer Account Number | REF02 | LIN: REF01= 45 | X(30) |
| 55 | Payment Arrangement | Used to indicate whether customer has an active payment arrangement with the LDC. | REF02= Y or N | LIN: REF01= 4N | X(1) |
| 56 | LDC Billing Cycle | LDC Cycle on which the bill will be rendered | REF02 | LIN: REF01= BF | X(4) |
| 57 | LDC Billing Cycle – special condition | Indicates LDC Bill Cycle has frequency other than monthly | REF03 | LIN: REF01= BF | X(3) |
| 58 | Billing Type | Indicates type of billing - LDC consolidated Billing (REF02=LDC) - ESP consolidated Billing (REF02=ESP) - Dual bills (REF02=DUAL) | REF02 | LIN: REF01= BLT | X(4) |
| 59 | Billing Calculation Method | Indicates party to calculate bill. - LDC calculates bill (REF02=LDC) - Each calculate portion (REF02=DUAL) | REF02 | LIN: REF01= PC | X(4) |
| 60 | LDC Budget Billing Status | Transmits the current budget billing status shown for this customer on the LDC system. | REF02= Y or N | LIN: REF01= NR | X(1) |
| 61 | PJM LMP Bus | Point at which the customer is connected to the transmission grid | REF03 | LIN: REF01= SPL | X(80) |
| 62 | Interval Reporting Indicator | Indicates whether interval data will be reported at the detail, summary, or meter level. | REF02= SUMMARY or DETAIL or METERDET AIL | LIN: REF01= 17 | X(30) |

| | | | | | |
|--|---|---|----------------------|-------------------------|---------------|
| 62.1 | Special Meter Configuration Code | Used to convey there's a special meter present on the account. For example, Net Metering | REF02 | LIN: REF01 = KY | X(3) |
| 62.2 | Special Meter Configuration Information | PPLEU-used to report the max K1 (demand) the special meter supports | REF03 | LIN: REF01 = KY | X(80) |
| 63 | Customer Contacted LDC to Reinstated Date | Date/Time the customer contacted the LDC to reinstate. CCYYMMDD HHMM ZZ | DTM02, DTM03 & DTM04 | LIN: DTM01 = 007 | See EDI Guide |
| 64 | Service Period Start | Next Meter Read date on which Energy is expected to flow to this customer for the designated ESP. This will be the same date as the DTM*151 on the Drop transaction. | DTM02 | LIN: DTM01 = 150 | 9(8) |
| Note that the following AMT segments may appear in any order on the actual EDI transaction. | | | | | |
| 70 | Participating Interest | Percent of the customer's load the ESP is requesting service for. If an ESP is only responsible for half of the customer's eligible load, the amount .5 will be returned. | AMT02 | LIN: AMT01= 7N | 9(1).99999 |
| 71 | Eligible Load Percentage | Percent of the customer's load that is eligible for competition. For example, if 2/3 of the customer's load is eligible, the amount .66667 will be returned. | AMT02 | LIN: AMT01= QY | 9(1).99999 |
| 72 | Percent Tax Exemption | Customer's Tax Exemption Percentage - Residential usually 100% (send 1), Commercial/Industrial - anything other than 0% requires you secure tax exemption certificate. (e.g., if 50% send .5) | AMT02 | LIN: AMT01= DP | 9(1).9(4) |
| 73 | State Sales Tax Exemption | Customer's state sales tax exemption. Anything other than zero, supplier is required to secure tax exemption certificate. If 100% tax exempt, send 1. | AMT02 | LIN: AMT01= F7 | 9(1).9(4) |
| 74 | Air Conditioners in Load Management Program | Number of air conditioners that are part of load cycling program | AMT02 | LIN: AMT01= 5J | 9(2) |
| 75 | Water Heaters in Load Management Program | Number of water heaters that are part of load cycling program | AMT02 | LIN: AMT01= L0 | 9(2) |
| 76 | Peak Load Capacity | Peak load contributions provided to PJM for Installed Capacity calculation (coincident with PJM's peak) | AMT02 | LIN: AMT01= KC | 9(9).99 |

| | | | | | |
|--|--|--|--|--|---------|
| 77 | Network Service Peak Load | Customer's peak load contribution provided to PJM for the transmission service calculation (coincident with LDC peak) | AMT02 | LIN: AMT01= KZ | 9(9).99 |
| 78 | Meter Number | Number which identifies meter | Request: NM109= [meter number] or UNMETERED | NM101= MQ NM102= 3 NM108= 32 | X(30) |
| Note that the following REF segments may appear in any order on the actual EDI transaction. | | | | | |
| 90 | Loss Factor | Loss factor | REF02 | NM1:REF01= LF | X(30) |
| 91 | Profile Group | A code for the Load Profile used for this customer. Differs by LDC. Codes posted on LDC's Web site. | REF02 | NM1: REF01= LO | X(30) |
| 92 | LDC Rate Code | Code indicating the rate a customer is being charged by LDC per tariff. Codes posted on LDC's Web site | REF02 | NM1: REF01= NH | X(30) |
| 93 | LDC Rate Subclass Code | Used to provide further classification of a rate. | REF02 | NM1: REF01= PR | X(30) |
| 94 | ESP Rate Code | Rate code identified by LDC that reflects the ESP billing rate category | REF02 | NM1: REF01= RB | X(30) |
| 95 | Service Voltage | Service voltage | REF02 | NM1:REF01= SV | X(30) |
| 96 | LDC Meter Cycle | LDC Cycle on which the meter will be read | REF02 | NM1: REF01= TZ | X(2) |
| 97 | Meter Type | Type of Meter | REF02 | NM1: REF01= MT | X(5) |
| 98 | Meter Type Additional Information | Additional information for the meter type | REF03 | NM1: REF01= MT | X(80) |
| The following three fields each require that the Meter Type be shown in REF03: | | | | | |
| 99 | Meter Constant/Meter Multiplier | Some factor multiplied by the meter reading to give billed usage. | REF02 | NM1: REF01= 4P REF03 = Meter Type (See REF*MT) | 9(9).99 |
| 100 | Number of Dials / Digits and related decimal positions | Needed to determine usage if meter reading rolls over during the billing period. Number of dials on the meter displayed as the number of dials to the left of the decimal, a decimal point, and number of dials to the right of the decimal. | REF02 | NM1: REF01= IX REF03 = Meter Type (See REF*MT) | 9.9 |

| | | | | | |
|-----|-----------------------------------|--|--|--|------|
| 101 | Type of metering used for billing | Indicates the type of metering information that will be sent on the 867 transaction. | REF02= 41 (on peak) or 42 (off peak) 43 (intermediate) or 51 (totalizer) | NM1: REF01 = TU REF03 = Meter Type (See REF*MT) | X(2) |
|-----|-----------------------------------|--|--|--|------|

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:

| | |
|-----------------|------------------|
| PA Use: | Required |
| NJ Use: | Required |
| DE Use: | Required |
| MD Use: | Required |
| Example: | ST*814*000000001 |

Data Element Summary

| | Ref. | Data | Name | X12 Attributes |
|----------|-------------|----------------|--|-----------------------|
| | Des. | Element | | |
| Must Use | ST01 | 143 | Transaction Set Identifier Code Code uniquely identifying a Transaction Set 814 General Request, Response or Confirmation | 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: **BGN** Beginning Segment
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a transaction set
Syntax Notes: 1 If BGN05 is present, then BGN04 is required.
Semantic Notes: 1 BGN02 is the transaction set reference number.
 2 BGN03 is the transaction set date.
 3 BGN04 is the transaction set time.
 4 BGN05 is the transaction set time qualifier.
 5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

Comments:

| | |
|--------------------------|--|
| PA Use: | Required |
| NJ Use: | Required |
| DE Use: | Required |
| MD Use: | Required |
| Request Example: | BGN*13*199904011956531*19990401 (Note: BGN06 not used in the request.) |
| Response Example: | BGN*11*199904020830531*19990402***199904011956531 (Note: BGN06 optional on the response.) |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|----------|------------------|---------------------|---|-----------------------|
| Must Use | BGN01 | 353 | Transaction Set Purpose Code Code identifying purpose of transaction set 11 Response Signifies that the requested service will be addressed as described in this transaction. 13 Request | M ID 2/2 |
| Must Use | BGN02 | 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 must be unique over time. | M AN 1/30 |
| Must Use | BGN03 | 373 | Date Date (CCYYMMDD) The transaction creation date – the date that the data was processed by the sender’s application system. | M DT 8/8 |
| Optional | BGN06 | 127 | Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier If used, refers to the BGN02 identification number of the original Request. Not used on the request. Optional on the response. | O AN 1/30 |

- Segment:** **N1** Name (8S=LDC Name)
Position: 040
Loop: N1
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.

| | | |
|--------------------------|---|--|
| PA Use: | Request: | Required |
| | Accept Response: | Required |
| | Reject Response: | Required for response if provided on request |
| NJ Use: | Same as PA | |
| DE Use: | Same as PA | |
| MD Use: | Same as PA | |
| Request Example: | N1*8S*LDC COMPANY*1*007909411**41 (as Sender) | |
| Response Example: | N1*8S*LDC COMPANY*1*007909411**40 (as Receiver) | |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|-----------------|------------------|---------------------|--|-----------------------|
| Must Use | N101 | 98 | Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) LDC | M ID 2/3 |
| Must Use | N102 | 93 | Name Free-form name LDC Company 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 LDC D-U-N-S Number or D-U-N-S + 4 Number | X AN 2/80 |
| Must Use | N106 | 98 | Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual. Used in addition to the N103 and N104 to identify the transaction sender and receiver when more than two parties are identified by N1 loops. 40 Receiver Entity to accept transmission 41 Submitter Entity transmitting transaction set | O ID 2/3 |

Segment: **N1** Name (SJ=ESP Name)
Position: 040
Loop: N1
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.

| | |
|--------------------------|---|
| PA Use: | Request: Required Response: Required |
| NJ Use: | Same as PA |
| DE Use: | Same as PA |
| MD Use: | Same as PA |
| Request Example: | N1*SJ*ESP COMPANY*9*007909422ESP1**40 (as Receiver) |
| Response Example: | N1*SJ*ESP COMPANY*9*007909422ESP1**41 (as Sender) |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|----------|------------------|---------------------|--|-----------------------|
| Must Use | N101 | 98 | Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual SJ Service Provider ESP | M ID 2/3 |
| Must Use | N102 | 93 | Name Free-form name ESP Company 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 ESP D-U-N-S Number or D-U-N-S + 4 Number | X AN 2/80 |
| Must Use | N106 | 98 | Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual. Used in addition to the N103 and N104 to identify the transaction sender and receiver when more than two parties are identified by N1 loops. 40 Receiver Entity to accept transmission 41 Submitter Entity transmitting transaction set | O ID 2/3 |

Segment: **N1** Name (G7=Renewable Energy Provider Name)
Position: 040
Loop: N1
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.

| | |
|-----------------|--|
| PA Use: | Not used |
| NJ Use: | Required |
| DE Use: | Not used |
| MD Use: | Not used |
| Example: | N1*G7*RENEWABLE COMPANY*9*007909422GPM |

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 G7 Entity Providing the Service Renewable Energy Provider | M ID 2/3 |
| Must Use | N102 | 93 | Name Free-form name Renewable Energy Provider Company 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 Renewable Energy Provider D-U-N-S Number or D-U-N-S + 4 Number | X AN 2/20 |
| Must Use | N106 | 98 | Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual. Used in addition to the N103 and N104 to identify the transaction sender and receiver when more than two parties are identified by N1 loops. 40 Receiver Entity to accept transmission 41 Submitter Entity transmitting transaction set | O ID 2/3 |

Segment: **N1** Name (8R=Customer Name)
Position: 040
Loop: N1
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.

| | |
|--------------------------|--|
| PA Use: | Request: Required Accept Response: Required Reject Response: Required for response if provided in the request. |
| NJ Use: | Same as PA |
| DE Use: | Same as PA |
| MD Use: | Same as PA |
| Request Examples: | N1*8R*CUSTOMER NAME*92*1210 N1*8R*CUSTOMER NAME |
| Response Example: | N1*8R*CUSTOMER NAME |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 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 Used to identify the customer associated with the LDC service account | M ID 2/3 |
| Must Use | N102 | 93 | Name Free-form name Customer Name as it appears on the customer's bill | X AN 1/60 |
| Conditional | N103 | 66 | Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent Reference Number assigned by and meaningful to the customer. Note that this number is assigned to the LDC and may or may not be applicable to the ESP. Condition: The N103 and N104 are optional only on the Request transaction. This information is provided at the point of time in the enrollment or re-instatement; an 814 change will not be processed if this data changes. | X ID 1/2 |
| Conditional | N104 | 67 | Identification Code Code identifying a party or other code Reference Number assigned by and meaningful to the customer. Note that this number is assigned to the LDC and may or may not be applicable to the ESP. Condition: The N103 and N104 are optional only on the Request transaction. This information is provided at the point of time in the enrollment or re-instatement; an 814 change will not be processed if this data changes. This information may also appear on a Rate Ready 810. | X AN 2/80 |

Segment: **N3** Address Information
Position: 060
Loop: N1
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

| | |
|-----------------|--|
| PA Use: | Request: Required for Customer Service Address Response: Not Used |
| NJ Use: | Same as PA |
| DE Use: | Same as PA |
| MD Use: | Same as PA |
| Example: | N3*123 N MAIN ST*MS FLR13 |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|-----------------|------------------|---------------------|---|-----------------------|
| Must Use | N301 | 166 | Address Information Address information | M AN 1/55 |
| Optional | N302 | 166 | Address Information Address information | O AN 1/55 |

Segment: **N4 Geographic Location**
Position: 070
Loop: N1
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.

| | |
|-----------------|---|
| PA Use: | Request: Required for Customer Service Address Response: Not Used |
| NJ Use: | Same as PA, with exception of County information which will not be used in New Jersey |
| DE Use: | Same as PA |
| MD Use: | Same as PA. |
| Example: | N4*ANYTOWN*PA*18111**CO*LEHIGH N4*ANYTOWN*PA*181110001**CO*LEHIGH |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|-------------|------------------|---------------------|--|-----------------------|
| Must Use | N401 | 19 | City Name Free-form text for city name NJ (PSEG): Both City and State are stored in same field, and both are sent in this field. | O AN 2/30 |
| Must Use | N402 | 156 | State or Province Code Code (Standard State/Province) as defined by appropriate government agency | O ID 2/2 |
| Must Use | N403 | 116 | Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | O ID 3/15 |
| Conditional | N405 | 309 | Location Qualifier Code identifying type of location PA: N405 and N406 are provided on the request ONLY when the customer is believed to live in a taxable county for Rate Ready Consolidated Billing. MD: See N406 field for applicability of this field. | X ID 1/2 |
| Conditional | N406 | 310 | Location Identifier Code which identifies a specific location PA: N405 and N406 are provided on the request ONLY when the customer premise is believed to be located in a taxable county for Rate Ready Consolidated Billing. MD: - PEPCO will always send county field - BGE, PE will send county field when premise is in a taxable county | O AN 1/30 |

Segment: **PER** Administrative Communications Contact
Position: 080
Loop: N1
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

| | | |
|---------------------------|--|--|
| PA Implementation: | Used to provide customer contact information | |
| PA Use: | Request: | Conditional: Must send for customer contact information if it is maintained in the utility's system. |
| | Response: | Not Used |
| NJ Use: | Same as PA | |
| DE Use: | Same as PA | |
| MD Use: | Same as PA | |
| Examples: | PER*IC**TE*8005559876 PER*IC*JOE DOE*TE*8005559876*FX*8005551111*EM*JOE@SERVICE.COM | |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|----------|------------------|---------------------|--|-----------------------|
| Must Use | PER01 | 366 | Contact Function Code Code identifying the major duty or responsibility of the person or group named IC Information Contact | M ID 2/2 |
| Optional | PER02 | 93 | Name Free-form name | O AN 1/60 |
| Must Use | PER03 | 365 | Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone | X ID 2/2 |
| Must Use | PER04 | 364 | Communication Number Complete communications number including country or area code when applicable | X AN 1/80 |
| Optional | PER05 | 365 | Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone | X ID 2/2 |
| Optional | PER06 | 364 | Communication Number Complete communications number including country or area code when applicable | X AN 1/80 |
| Optional | PER07 | 365 | Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone | X ID 2/2 |
| Optional | PER08 | 364 | Communication Number Complete communications number including country or area code when applicable | X AN 1/80 |

Segment: **N1** Name (BT=Billing Address)
Position: 040
Loop: N1
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.

| | |
|-----------------|---|
| PA Use: | Request: Required for Billing Address if different than Service Address Response: Not Used |
| NJ Use: | Same as PA Note: PSEG does not provide. |
| DE Use: | Same as PA |
| MD Use: | Same as PA |
| Example: | N1*BT*ACCOUNTS PAYABLE DIVISION |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|----------|------------------|---------------------|--|-----------------------|
| Must Use | N101 | 98 | Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual BT Bill-to-Party Used to identify a billing address for the customer | M ID 2/3 |
| Must Use | N102 | 93 | Name Free-form name | X AN 1/60 |

Segment: N3 Address Information
Position: 060
Loop: N1
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

| | |
|-----------------|---|
| PA Use: | Request: Required for Billing Address if different than Service Address Response: Not Used |
| NJ Use: | Same as PA Note: PSEG does not provide. |
| DE Use: | Same as PA |
| MD Use: | Same as PA |
| Example: | N3*123 N MAIN ST*MS FLR13 |

Data Element Summary

| | Ref. | Data | Name | X12 Attributes |
|----------|-------------|----------------|---|-----------------------|
| | Des. | Element | | |
| Must Use | N301 | 166 | Address Information Address information | M AN 1/55 |
| Optional | N302 | 166 | Address Information Address information | O AN 1/55 |

Segment: **N4 Geographic Location**
Position: 070
Loop: N1
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.

| | |
|------------------|---|
| PA Use: | Request: Required for Billing Address if different than Service Address Response: Not Used |
| NJ Use: | Same as PA Note: PSEG does not provide. |
| DE Use: | Same as PA |
| MD Use: | Same as PA |
| Examples: | N4*ANYTOWN*PA*18111 N4*ANYTOWN*PA*181110001*US |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|----------|------------------|---------------------|--|-----------------------|
| Must Use | N401 | 19 | City Name Free-form text for city name | O AN 2/30 |
| Must Use | N402 | 156 | State or Province Code Code (Standard State/Province) as defined by appropriate government agency | O ID 2/2 |
| Must Use | N403 | 116 | Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | O ID 3/15 |
| Optional | N404 | 26 | Country Code Code identifying the country | O ID 2/3 |

Segment: **PER** Administrative Communications Contact
Position: 080
Loop: N1
Level: Heading:
Usage: Optional
Max Use: >1
Purpose: To identify a person or office to which administrative communications should be directed
Syntax Notes: 1 If either PER03 or PER04 is present, then the other is required.
 2 If either PER05 or PER06 is present, then the other is required.
 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

| | | |
|-----------------|--|--|
| PA Use: | Request: | Required for billing contact if it is different than service address contact and it is maintained in the utility's system. |
| | Response: | Not Used |
| NJ Use: | Same as PA | |
| DE Use: | Same as PA | |
| MD Use: | Same as PA | |
| Example: | PER*IC*ACCOUNTS PAYABLE DIVISION*TE*8005551212 | |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|-----------------|------------------|---------------------|--|-----------------------|
| Must Use | PER01 | 366 | Contact Function Code Code identifying the major duty or responsibility of the person or group named IC Information Contact | M ID 2/2 |
| Optional | PER02 | 93 | Name Free-form name | O AN 1/60 |
| Must Use | PER03 | 365 | Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone | X ID 2/2 |
| Must Use | PER04 | 364 | Communication Number Complete communications number including country or area code when applicable | X AN 1/80 |
| Optional | PER05 | 365 | Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone | X ID 2/2 |
| Optional | PER06 | 364 | Communication Number Complete communications number including country or area code when applicable | X AN 1/80 |
| Optional | PER07 | 365 | Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone | X ID 2/2 |
| Optional | PER08 | 364 | Communication Number Complete communications number including country or area code when applicable | X AN 1/80 |

Segment: **N1** Name (PK=Party to Receive Copy of Notices)
Position: 040
Loop: N1
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.

| | | |
|-----------------|------------------------|---|
| PA Use: | Request: | Optional for Party to Receive Copy of Notices (not bills) |
| | Response: | Not Used |
| NJ Use: | Request: | Optional for Party to Receive Copy of Notices (not bills) - JCP&L- Maintained in their system for some customers - Atlantic City Electric, PSE&G – Not maintained in their system |
| | Response: | Not Used |
| DE Use: | Not Used | |
| MD Use: | Will not be used Day 1 | |
| Example: | N1*PK*ANN SMITH | |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|-----------------|------------------|---------------------|--|-----------------------|
| Must Use | N101 | 98 | Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual PK Party to Receive Copy Used to identify a third party that is to receive a copy of all notices (not bills) to the end use customer. | M ID 2/3 |
| Must Use | N102 | 93 | Name Free-form name | X AN 1/60 |

Segment: N3 Address Information
Position: 060
Loop: N1
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

| | |
|-----------------|--|
| PA Use: | Request: Optional for Party to Receive Copy of Notices (not bills) Response: Not Used |
| NJ Use: | Same as PA – JCP&L– Maintained in their system for some customers Atlantic City Electric, PSE&G – Not maintained in their system |
| DE Use: | Not Used |
| MD Use: | Will not be used Day 1 |
| Example: | N3*4251 S ELECTRIC ST*MS 25 |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|----------|------------------|---------------------|---|-----------------------|
| Must Use | N301 | 166 | Address Information Address information | M AN 1/55 |
| Optional | N302 | 166 | Address Information Address information | O AN 1/55 |

Segment: **N4 Geographic Location**
Position: 070
Loop: N1
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.

| | |
|------------------|---|
| PA Use: | Request: Optional for Party to Receive Copy of Notices (not bills) Response: Not Used |
| NJ Use: | Same as PA – JCP&L – Maintained in their system for some customers Atlantic City Electric, PSE&G – Not maintained in their system |
| DE Use: | Not Used |
| MD Use: | Will not be used Day 1 |
| Examples: | N4*ANYTOWN*PA*18111 N4*ANYTOWN*PA*181110001*US |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|----------|------------------|---------------------|--|-----------------------|
| Must Use | N401 | 19 | City Name Free-form text for city name | O AN 2/30 |
| Must Use | N402 | 156 | State or Province Code Code (Standard State/Province) as defined by appropriate government agency | O ID 2/2 |
| Must Use | N403 | 116 | Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | O ID 3/15 |
| Optional | N404 | 26 | Country Code Code identifying the country | O ID 2/3 |

Segment: **PER** Administrative Communications Contact
Position: 080
Loop: N1
Level: Heading:
Usage: Optional
Max Use: >1
Purpose: To identify a person or office to which administrative communications should be directed
Syntax Notes: 1 If either PER03 or PER04 is present, then the other is required.
 2 If either PER05 or PER06 is present, then the other is required.
 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

| | |
|------------------|---|
| PA Use: | Request: Optional for Party to Receive Copy of Notices (not bills) Response: Not Used |
| NJ Use: | Same as PA – JCP&L – Maintained in their system for some customers Atlantic City Electric, PSE&G – Not maintained in their system |
| DE Use: | Not Used |
| MD Use: | Will not be used Day 1 |
| Examples: | PER*IC*ANN SMITH*TE*8005551212 PER*IC*ANN SMITH*TE*8005551212*FX*8005551111*EM*ANN@SERVICE.COM |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|-----------------|------------------|---------------------|--|-----------------------|
| Must Use | PER01 | 366 | Contact Function Code Code identifying the major duty or responsibility of the person or group named IC Information Contact | M ID 2/2 |
| Optional | PER02 | 93 | Name Free-form name | O AN 1/60 |
| Must Use | PER03 | 365 | Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone | X ID 2/2 |
| Must Use | PER04 | 364 | Communication Number Complete communications number including country or area code when applicable | X AN 1/80 |
| Optional | PER05 | 365 | Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone | X ID 2/2 |
| Optional | PER06 | 364 | Communication Number Complete communications number including country or area code when applicable | X AN 1/80 |
| Optional | PER07 | 365 | Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone | X ID 2/2 |
| Optional | PER08 | 364 | Communication Number Complete communications number including country or area code when applicable | X AN 1/80 |

Segment: **N1** Name (2C=Party to Receive Copy of Bills)
Position: 040
Loop: N1
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.

| | | |
|-----------------|-----------------------------|---|
| PA Use: | Request: | Optional for Party to Receive Copy of Bills |
| | Response: | Not Used |
| NJ Use: | Request: | Optional for Party to Receive Copy of Bills - JCP&L – Maintained in their system for some customers - PSE&G and Atlantic City Electric – Not maintained in their system |
| | Response: | Not Used |
| DE Use: | Request: | Optional |
| | Response: | Not Used |
| MD Use: | Request: | Not Used |
| | CE Accept Response: | Optional for Party to Receive Copy of Bills - BG&E, Delmarva & PEPCO – Not maintained in their system |
| | All other Accept Responses: | Not Used |
| | Reject Response: | Not Used |
| Example: | N1*2C*THOMAS SMITH | |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|-----------------|------------------|---------------------|---|-----------------------|
| Must Use | N101 | 98 | Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual 2C Co-Participant Used to identify a third party who shares responsibility for payment of the customer’s bill. This party will receive copies of all bills, not notices. | M ID 2/3 |
| Must Use | N102 | 93 | Name Free-form name | X AN 1/60 |

Segment: N3 Address Information
Position: 060
Loop: N1
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

| | |
|-----------------|--|
| PA Use: | Request: Optional for Party to Receive Copy of Bills Response: Not Used |
| NJ Use: | Same as PA - JCP&L – Maintained in their system for some customers - PSE&G and Atlantic City Electric – Not maintained in their system |
| DE Use: | Request: Optional Response: Not Used |
| MD Use: | Same as PA - Delmarva, BG&E, PEPCO – not maintained in their system |
| Example: | N3*4251 S ELECTRIC ST*MS 25 |

Data Element Summary

| | Ref. | Data | | X12 Attributes |
|-----------------|-------------|----------------|--|-----------------------|
| | Des. | Element | Name | |
| Must Use | N301 | 166 | Address Information | M AN 1/55 |
| Optional | N302 | 166 | Address information Address Information Address information | O AN 1/55 |

Segment: **N4 Geographic Location**
Position: 070
Loop: N1
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.

| | |
|------------------|--|
| PA Use: | Request: Optional for Party to Receive Copy of Bills Response: Not Used |
| NJ Use: | Same as PA JCP&L – Maintained in their system for some customers PSE&G and Atlantic City Electric – Not maintained in their system |
| DE Use: | Request: Optional Response: Not Used |
| MD Use: | Same as PA Delmarva, BG&E, PEPCO – not maintained in their system |
| Examples: | N4*ANYTOWN*PA*18111 N4*ANYTOWN*PA*181110001*US |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|----------|------------------|---------------------|--|-----------------------|
| Must Use | N401 | 19 | City Name Free-form text for city name | O AN 2/30 |
| Must Use | N402 | 156 | State or Province Code Code (Standard State/Province) as defined by appropriate government agency | O ID 2/2 |
| Must Use | N403 | 116 | Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | O ID 3/15 |
| Optional | N404 | 26 | Country Code Code identifying the country | O ID 2/3 |

Segment: **PER** Administrative Communications Contact
Position: 080
Loop: N1
Level: Heading:
Usage: Optional
Max Use: >1
Purpose: To identify a person or office to which administrative communications should be directed
Syntax Notes: 1 If either PER03 or PER04 is present, then the other is required.
 2 If either PER05 or PER06 is present, then the other is required.
 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

| | |
|------------------|---|
| PA Use: | Request: Optional for Party to Receive Copy of Bills Response: Not Used |
| NJ Use: | Same as PA JCP&L– Maintained in their system for some customers PSE&G and Atlantic City Electric – Not maintained in their system |
| DE Use: | Request: Optional Response: Not Used |
| MD Use: | Same as PA Delmarva, BG&E, PEPCO – not maintained in their system |
| Examples: | PER*IC*THOMAS SMITH*TE*8005552878 PER*IC*TOM SMITH*TE*8005552878*FX*8005551019*EM*TOM@SERVICE.COM |

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>X12 Attributes</u> |
|----------|------------------|---------------------|--|-----------------------|
| Must Use | PER01 | 366 | Contact Function Code Code identifying the major duty or responsibility of the person or group named IC Information Contact | M ID 2/2 |
| Optional | PER02 | 93 | Name Free-form name | O AN 1/60 |
| Must Use | PER03 | 365 | Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone | X ID 2/2 |
| Must Use | PER04 | 364 | Communication Number Complete communications number including country or area code when applicable | X AN 1/80 |
| Optional | PER05 | 365 | Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone | X ID 2/2 |
| Optional | PER06 | 364 | Communication Number Complete communications number including country or area code when applicable | X AN 1/80 |
| Optional | PER07 | 365 | Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone | X ID 2/2 |
| Optional | PER08 | 364 | Communication Number Complete communications number including country or area code when applicable | X AN 1/80 |

Segment: **LIN** Item Identification

Position: 010

Loop: LIN

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify basic item identification data

Syntax Notes:

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes:

- 1 LIN01 is the line item identification

Comments:

- 1 See the Data Dictionary for a complete list of IDs.
- 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

| | |
|------------------|--|
| PA Use: | Request: Required |
| | Accept Response: Required |
| | Reject Response: Required if it was provided on the request. |
| NJ Use: | Same as PA |
| DE Use: | Same as PA |
| MD Use: | Same as PA |
| Examples: | LIN*REIN1999123108000001*SH*EL*SH*CE |

Data Element Summary

| | Ref. | Data | X12 Attributes |
|----------|--------------|---|-----------------------|
| | Des. | Element Name | |
| Must Use | LIN01 | 350 Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set On the request, this is a unique tracking number for each line item (LIN) in this transaction. This number must be unique over all time. This number must be returned on the response transaction in the same element. | O AN 1/20 |
| Must Use | LIN02 | 235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested | M ID 2/2 |
| Must Use | LIN03 | 234 Product/Service ID Identifying number for a product or service EL Electric Service Identifies the product | M AN 1/48 |
| Must Use | LIN04 | 235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested | M ID 2/2 |
| Must Use | LIN05 | 234 Product/Service ID Identifying number for a product or service CE Generation Services Indicates this transaction is related to Generation Services. RC Renewable Energy Certificate Services Indicates this transaction is related to Renewable Energy Certificate Services | M AN 1/48 |

Segment: **ASI** Action or Status Indicator
Position: 020
Loop: LIN
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To indicate the action to be taken with the information provided or the status of the entity described

Syntax Notes:
Semantic Notes:
Comments:

| | | |
|---------------------------|--|-----------------|
| Notes: | Identifies the action to be taken or the status of a requested action for the service identified in the LIN segment. Status Reason Codes are conveyed in the REF segment (position 030) rather than in the ASI03, to allow for multiple status reasons. | |
| PA Use: | Request: | Required |
| | Response: | Required |
| NJ Use: | Same as PA | |
| DE Use: | Same as PA | |
| MD Use: | Same as PA | |
| Request Example: | ASI*7*025 | |
| Response Examples: | ASI*WQ*025 | Accept Response |
| | ASI*U*025 | Reject Response |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|----------|------------------|---------------------|---|-----------------------|
| Must Use | ASI01 | 306 | Action Code Code indicating type of action 7 Request U Reject WQ Accept | M ID 1/2 |
| Must Use | ASI02 | 875 | Maintenance Type Code Code identifying the specific type of item maintenance 025 Reinstatement | M ID 3/3 |

Segment: **REF** Reference Identification (7G=Rejection Reason)
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.
Comments:

| | |
|-----------------|--|
| Notes: | This iteration of the REF segment is used to convey the rejection reason codes in response to a Request. The rejection reason codes are conveyed in this segment rather than in the ASI03 to allow for multiple rejection reasons. |
| PA Use: | Request: Not Used Accept Response: Not Used Reject Response: Required |
| NJ Use: | Same as PA |
| DE Use: | Same as PA |
| MD Use: | Same as PA |
| Example: | REF*7G*A13*ADDITIONAL REASON TEXT HERE |

Data Element Summary

| <u>Ref.</u> | <u>Data</u> | <u>Name</u> | <u>X12 Attributes</u> |
|--------------------------|-------------|--|--|
| Must Use REF01 | 128 | Reference Identification Qualifier | M ID 2/3 |
| | | Code qualifying the Reference Identification | |
| | | 7G | Data Quality Reject Reason |
| | | | Reject reasons associated with a reject status notification. |

Rules for Rejection Reason Codes

The codes on the next several pages have been identified by the UIG to convey rejection reasons. Only the codes listed for each service are valid for that service. If you require additional codes, send an email to the appropriate state’s listserver.

“A13” (Other) must **only** be used when an existing error code does not convey the reason correctly. Each time “A13” (Other) is used for a new purpose, an E-mail must be sent to the appropriate state’s listserver by the party sending the code, to notify the market participants about the text explanation for A13. This information will be compiled and new codes will be issued on a periodic basis.

PA Listserver: edewg@ls.eei.org

NJ Listserver: njbpu@ls.eei.org

Reinstatement Rejection Codes:

| 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 | | |
| | | A13 | Other | | |
| | | | REF03 Required. Send email to edewg@ls.eei.org each time A13 is used for a new purpose. | | |
| | | A76 | Account not found | | |
| | | | This includes invalid account numbers as well as no account number being found. | | |
| | | ABN | Duplicate request received | | |
| | | ACI | Action Code (ASI01) Invalid | | |
| | | API | Required information missing (REF03 Required) | | |
| | | B33 | Customer name is missing from the request | | |
| | | DIV | Date Invalid or Missing | | |
| | | | Used to indicate any error in the Effective Date (DTM* or the Start date (DTM*150) | | |
| | | FRB | Incorrect Billing Option (REF*BLT) Requested | | |
| | | FRC | Incorrect Bill Calculation Method (REF*PC) Requested | | |
| | | MTI | Maintenance Type Code (ASI02) Invalid | | |
| | | UNE | Cannot identify LDC | | |
| | | W05 | Requested Rate not found or not in effect on the requested date (Rate Ready Only). | | |

| Optional | REF03 | 352 | Description | X | AN 1/80 |
|----------|-------|-----|--|---|---------|
| | | | A free-form description to clarify the related data elements and their content | | |
| | | | Used to further describe the status reason code sent in REF02. Codes "A13" and "API" require text explanation in this element. | | |

Segment: **REF** Reference Identification (11=ESP Account Number)
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.
Comments:

| | | |
|-----------------|---|--|
| Notes: | ESP Account number should exclude punctuation (spaces, dashes, etc). Significant leading and trailing zeros must be included. | |
| PA Use: | Request: | Required if it was provided previously |
| | Accept Response: | Required if it was provided on the request |
| | Reject Response: | Required if it was provided on the request |
| NJ Use: | Request: | Conditional (See **) if it was provided previously |
| | Accept Response: | Required if it was provided on the request |
| | Reject Response: | Required if it was provided on the request |
| DE Use: | Delmarva will store ESP account number and will be required to send it if it was previously provided to the LDC. | |
| MD Use: | Same as PA | |
| Example: | REF*11*2348400586 | |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|----------|------------------|---------------------|---|-----------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification 11 Account Number ESP-assigned account number for end use customer. | 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 | X AN 1/30 |

Segment: **REF** Reference Identification (12=LDC Account Number)
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.
Comments:

| | |
|-----------------|---|
| PA Use: | 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 – when the rejection reason is due to an LDC account number not being provided in the request, this segment must not be sent on the response. |
| NJ Use: | Same as PA |
| DE Use: | Same as PA |
| MD Use: | Same as PA |
| Example: | REF*12*2931839200 |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|----------|------------------|---------------------|--|-----------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification 12 Billing Account LDC-assigned account number for end use customer. | 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 | X AN 1/30 |

Segment: **REF** Reference Identification (45=LDC Old Account Number)
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.
Comments:

| | |
|-----------------|---|
| PA Use: | Request: Required if the account number has changed in the last 60 days. Response: Not Used |
| NJ Use: | Same as PA |
| DE Use: | Not Used |
| MD Use: | Not Used by BGE, PEPCO, or Delmarva. PE: Required if the account number has changed in the last 60 days. |
| Example: | REF*45*1105687500 |

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>X12 Attributes</u> |
|----------|------------------|---------------------|--|-----------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification 45 Old Account Number LDC's previous account number for the end use customer. | 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 | X AN 1/30 |

Segment: **REF** Reference Identification (4N=Payment Arrangement)
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.
Comments:

| | |
|-----------------|---|
| PA Use: | Used to convey current LDC Payment Arrangement Status of the customer at the point of time of the Enrollment. An 814 Change would not be processed if the status changed. Request: Required for PPL EU Response: Not Used |
| NJ Use: | Not Used |
| DE Use: | Not Used |
| MD Use: | Not Used |
| Example: | REF*4N*N |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|----------|------------------|---------------------|--|-----------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification 4N Special Payment Reference Number Used to indicate that customer has made a payment arrangement. | 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 Y Customer has an active payment arrangement N Customer does not have an active payment arrangement | X AN 1/30 |

Segment: **REF** Reference Identification (BF=LDC Bill Cycle)
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.
Comments:

| | |
|-----------------|---|
| PA Use: | Request: Required Response: Not Used |
| | PA Note: Normally, Bill Cycle (REF*BF) and Meter Cycle (REF*TZ) are the same. An exception is when the account is on a summary bill. When a customer is on a summary bill, the bill cycle (REF*BF) will reflect the cycle when the bill is issued to the customer. The meter cycle (REF*TX) will continue to indicate the cycle the account is read. |
| NJ Use: | Request: Required Response: Not Used |
| DE Use: | Same as NJ |
| MD Use: | Same as NJ Note: REF03 is used to indicate an account is billed bi-monthly. If an account is billed every month, no value will be sent in REF03 |
| Example: | REF*BF*15 |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|----------|------------------|---------------------|--|-----------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification BF Billing Center Identification LDC Billing cycle. Cycle number when the billing will be rendered. | 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 | X AN 1/30 |
| Optional | REF03 | 352 | Description A free-form description to clarify the related data elements and their content BIM Bi-Monthly Indicates account is billed every other month. Note: Used only in Maryland | X AN 1/80 |

Segment: **REF** Reference Identification (BLT=Billing Type)
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.
Comments:

| | |
|-----------------|---|
| PA Use: | Request: Required Response: Not Used |
| NJ Use: | Same as PA. However, only valid options are LDC and DUAL. |
| DE Use: | Same as NJ |
| MD Use: | Same as PA |
| Example: | REF*BLT*LDC |

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>X12 Attributes</u> |
|----------|------------------|---------------------|---|-----------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification BLT Billing Type Identifies whether the bill is consolidated by the LDC or ESP, or whether each party will render their own bill. See REF02 for valid values. | 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 BLT, valid values for REF02 are: LDC - The LDC bills the customer ESP - The ESP bills the customer DUAL - Each party bills the customer for its own portion Note: In New Jersey, only LDC and DUAL are valid. | X AN 1/30 |

Segment: **REF** Reference Identification (PC=Bill Calculator)
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.
Comments:

| | |
|-----------------|---|
| PA Use: | Request: Required Response: Not Used |
| NJ Use: | Same as PA |
| DE Use: | Same as PA |
| MD Use: | Same as PA |
| Example: | REF*PC*LDC |

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>X12 Attributes</u> |
|----------|------------------|---------------------|---|-----------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification PC Production Code Identifies the party that is to calculate the charges on 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 When REF01 is PC, valid values for REF02 are: LDC - The LDC calculates the charges on the bill (Rate Ready) DUAL - Each party calculates its portion of the bill (Dual or Bill Ready) | X AN 1/30 |

| IF ... | | THEN... | | |
|--------------------|-------------|-------------|---------------|-------------|
| Bills the Customer | Calculates | | Billing Party | Calc. Party |
| | LDC Portion | ESP Portion | REF*BLT | REF*PC |
| LDC | LDC | LDC | LDC | LDC |
| LDC | LDC | ESP | LDC | DUAL |
| ESP | LDC | ESP | ESP | DUAL |
| DUAL | LDC | ESP | DUAL | DUAL |

Be careful to use the UIG Standard Code Values LDC and ESP rather than the Pennsylvania versions of those codes.

Segment: **REF** Reference Identification (NR=LDC Budget Billing Status)
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.
Comments:

| | |
|-----------------|---|
| PA Use: | Used to convey the budget billing status at the point of time of the enrollment. An 814 change would not be sent if the status changed. |
| | Request: Required for PECO; Optional for others Response: Not Used |
| NJ Use: | Not Used |
| DE Use: | Not Used |
| MD Use: | Not Used |
| Example: | REF*NR*Y |

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>X12 Attributes</u> |
|----------|------------------|---------------------|---|-----------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification NR Progress Payment Number Used to convey LDC Budget Billing Status | 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 NR, valid values for REF02 are: Y – LDC is Budget Billing LDC charges for this account. N – LDC is not Budget Billing LDC charges for this account. | X AN 1/30 |

Segment: **REF** Reference Identification (SPL=PJM LMP Bus)
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.
Comments:

| | |
|-----------------|---|
| PA Use: | Note that the PJM LMP Bus must appear in the REF03 because REF02 is limited to 30 characters and this field requires at least 32. Request: Required if PJM Participant Response: Not Used |
| NJ Use: | Same as PA |
| DE Use: | Same as PA |
| MD Use: | Same as PA |
| Example: | REF*SPL** PJM192478939901287748 |

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>X12 Attributes</u> |
|----------|------------------|---------------------|---|-----------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification SPL Standard Point Location Code (SPLC) Point at which the customer is connected to the transmission grid (PJM LMP Bus). The represents the Wholesale Settlement Bus. | M ID 2/3 |
| Must Use | REF03 | 352 | Description A free-form description to clarify the related data elements and their content PJM LMP Bus – Note REF03 is used, not REF02!! | X AN 1/80 |

Segment: **REF** Reference Identification (17=Summary Interval)
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.
Comments:

| | |
|-----------------|--|
| PA Use: | If the LDC supports the summary interval at the account level, the LDC will send the REF*17 segment as part of the reinstatement request. The value of the REF02 field for the REF*17 segment will either be "SUMMARY" or "DETAIL". Note: The REF*17 is being sent under the LIN05 code of "CE" as part of the reinstatement. If the LDC only supports the summary interval data at the supplier level, no REF*17 segment will be sent as part of the reinstatement. Request: Conditional – always sent if the LDC supports setting of interval summary/detail at the account level, and this is an interval account. Will not be sent if the LDC supports setting of interval summary/detail at the supplier level. Response: Not Used |
| NJ Use: | Optional. JCP&L will send "SUMMARY" value when Interval Summary has been established for this account. Not provided by the other EDCs. |
| DE Use: | Not Used |
| MD Use: | Same as PA |
| Example: | REF*17*SUMMARY REF*17*DETAIL REF*17*METERDETAIL (PECO only) |

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>X12 Attributes</u> |
|----------|------------------|---------------------|---|-----------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification 17 Client Reporting Category Used to convey whether the supplier will receive summary only information for this interval account, or whether the supplier will receive detail and associated summary information for this interval account. | 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 17, valid values for REF02 are: SUMMARY – Metering party will send only summary level data for this interval account. DETAIL – Metering party will send detail data and its associated summary information for this interval account. For PECO this will interpret as account-level detail. METERDETAIL – Metering party will send interval details for each meter on the account (PECO only) | X AN 1/30 |

Segment: REF Reference Identification (KY=Special Meter Configuration)
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.
Comments:

| | |
|-----------------|---|
| PA Use: | Required when special meter configuration is present on an account. |
| NJ Use: | Same as PA Note: NJ LDCs to send 'NETMETER' in REF02 |
| DE Use: | Same as PA |
| MD Use: | Same as PA |
| Example: | REF*KY* NSUN*0000026 |

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>X12 Attributes</u> |
|----------|------------------|---------------------|---|-----------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification KY Site Specific Procedures, Terms, and Conditions Special Meter Configuration | M ID 2/3 |
| Must Use | REF02 | 127 | Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier ASUN Net Metering Solar AWIN Net Metering Wind AHYD Net Metering Hydro ABIO Net Metering Biomass AWST Net Metering Waste ACHP Net Metering Combined Heat and Power AMLT Net Metering Multiple Different Sources NSUN Non-Net Metering Solar NWIN Non-Net Metering Wind NHYD Non-Net Metering Hydro NBIO Non-Net Metering Biomass NWST Non-Net Metering Waste NCHP Non-Net Metering Combined Heat and Power NFOS Non-Net Metering Fossil Fuel NMLT Non-Net Metering Multiple Different Sources NETMETER Net Meter (Used for EDCs who will not report the specific type of net meter) | X AN 1/30 |
| Optional | REF03 | 352 | Description A free-form description to clarify the related data elements and their content PPLEU: Used for the output rating of the generation equipment reporting in KW and reflects the maximum generation the equipment can produce at any one time | X AN 1/80 |

Segment: **DTM** Date/Time Reference (007=Effective Date)
Position: 040
Loop: LIN
Level: Detail
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: | To specify a time zone (DTM04), both DTM03 and DTM04 must be present. | |
| PA Use: | Request: | Required |
| | Response: | Not Used |
| NJ Use: | Same as PA | |
| DE Use: | Same as PA | |
| MD Use: | Same as PA | |
| Example: | DTM*007*19990411*1430*ET DTM*007*19990411 | |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|-----------------|------------------|---------------------|---|-----------------------|
| Must Use | DTM01 | 374 | Date/Time Qualifier Code specifying type of date or time, or both date and time 007 Effective Date The date/time the customer contacted the LDC to reinstate service with the ESP. | M ID 3/3 |
| Must Use | DTM02 | 373 | Date Date expressed as CCYYMMDD | X DT 8/8 |
| Optional | 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) Time expressed as HHMM format | X TM 4/8 |
| Optional | DTM04 | 623 | Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow CT Central Time ET Eastern Time MT Mountain Time PT Pacific Time | O ID 2/2 |

Segment: **DTM** Date/Time Reference (150=Service Start Date)
Position: 040
Loop: LIN
Level: Detail
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: | Date which energy is expected to flow for this customer for this ESP. This will be the same date as the DTM*151 on the drop transaction. | |
| PA Use: | Request: | Required |
| | Response: | Not Used |
| NJ Use: | Same as PA | |
| DE Use: | Same as PA | |
| MD Use: | Same as PA | |
| Example: | DTM*150*19990115 | |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|----------|------------------|---------------------|--|-----------------------|
| Must Use | DTM01 | 374 | Date/Time Qualifier Code specifying type of date or time, or both date and time 150 Service Period Start The date which energy is expected to flow for this customer for the ESP | M ID 3/3 |
| Must Use | DTM02 | 373 | Date Date expressed as CCYYMMDD | X DT 8/8 |

Segment: **AMT** Monetary Amount (7N=Participating Interest)
Position: 060
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

| | | |
|------------------|---|--------------------------------|
| Notes: | Use precision to the fifth decimal place. | |
| PA Use: | Request: | Required – will always be 100% |
| | Response: | Not Used |
| NJ Use: | Request: | Will always be 100% |
| | Response: | Not Used |
| DE Use: | Same as NJ | |
| MD Use: | Same as NJ | |
| Examples: | AMT*7N*1 | AMT*7N*.66667 |
| | AMT*7N*.5 | AMT*7N*.33333 |

Data Element Summary

| Ref. Des. | Data Element | Name | X12 Attributes |
|-------------------|--------------|---|-----------------|
| Must Use AMT01 | 522 | Amount Qualifier Code Code to qualify amount 7N Participating Interest This code is used to indicate the percentage of the eligible load that is supplied by the Energy Service Provider. | M ID 1/3 |
| Must Use AMT02 | 782 | Monetary Amount Monetary amount For percentage values, the whole number "1" represents 100 percent; decimal numbers less than "1" represent percentages from 1 percent to 99 percent. | M R 1/18 |

| If ESP Requests ___ of a Customer's Eligible Load... | Then, AMT02 is... |
|--|-------------------|
| 100% | 1 |
| 2/3 | .66667 |
| 1/2 | .5 |
| 1/3 | .33333 |

Note: The actual Eligible Load that will be supplied by an ESP will be the product of Participating Interest (AMT01 = 7N) and Eligible Load Percentage (AMT01 = QY). See example below:

| Participating Interest (AMT01=7N) | Eligible Load Percentage (AMT01=QY) | ESP Responsible for |
|-----------------------------------|-------------------------------------|---------------------|
| 1 | 1 | 1 (100%) |
| .5 | 1 | .5 (50%) |
| .33333 | 1 | .33333 (33%) |
| 1 | .66667 | .66667 (66%) |
| .5 | .66667 | .33333 (33%) |

Segment: **AMT** Monetary Amount (QY=Eligible Load Percentage)
Position: 060
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

| | |
|-----------------|---|
| Notes: | Use precision to the fifth decimal place. |
| PA Use: | Request: Required – will always reflect 100%. Response: Not Used |
| NJ Use: | Same as PA. However, Request will always reflect 100%. |
| DE Use: | Same as NJ |
| MD Use: | Same as PA. However, Request will always reflect 100%. |
| Example: | AMT*QY*.66667 |

Data Element Summary

| Ref. Des. | Data Element | Name | X12 Attributes |
|-------------------|--------------|--|-----------------|
| Must Use AMT01 | 522 | Amount Qualifier Code Code to qualify amount QY Qualified Eligible Load Percentage. Percentage of the customer's load that is eligible for competition. | M ID 1/3 |
| Must Use AMT02 | 782 | Monetary Amount Monetary amount For percentage values, the whole number "1" represents 100 percent; decimal numbers less than "1" represent percentages from 1 percent to 99 percent. | M R 1/18 |

| If ESP Requests ___ of a Customer's Eligible Load... | Then, AMT02 is... |
|--|-------------------|
| 100% | 1 |
| 2/3 | .66667 |
| 1/2 | .5 |
| 1/3 | .33333 |

Note: The actual Eligible Load that will be supplied by an ESP will be the product of Participating Interest (AMT01 = 7N) and Eligible Load Percentage (AMT01 = QY). See example below:

| Participating Interest (AMT01=7N) | Eligible Load Percentage (AMT01=QY) | ESP Responsible for |
|-----------------------------------|-------------------------------------|---------------------|
| 1 | 1 | 1 (100%) |
| .5 | 1 | .5 (50%) |
| .33333 | 1 | .33333 (33%) |
| 1 | .66667 | .66667 (66%) |
| .5 | .66667 | .33333 (33%) |

Segment: **AMT** Monetary Amount (DP=Tax Exemption Percent)
Position: 060
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

| | | |
|---------------------------|--|--|
| PA Implementation: | <p>This field is used for the non-billing party to tell the billing party the tax exemption amount that should be entered into the billing party's system in order to calculate a bill on the sender's behalf. This is required only for rate-ready LDC Consolidated billing where the LDC has loaded the ESP rates into their system, the LDC calculates the ESP charges, and places the ESP charges on the LDC bill. The following generic rules are offered to better explain the use of the segment for PA:</p> <ul style="list-style-type: none"> Residential customers default to '1' (AMT*DP*1~) as 100% tax exempt unless the residence is used for business purposes or vacation home. Commercial customers default to '0' (AMT*DP*0~) being 0% tax exempt unless the customer presents a sales tax exemption certificate. Should the customer have a tax exemption percentage less than 100% but greater than 0%, the value would be reported as a decimal (AMT*DP*.5~). A tax exemption certificate must be secured from the customer. <p>It's the ESP's responsibility to ensure the value in the AMTDP is accurate based on the customer's tax status. Under Rate Ready billing, correcting inaccurate customer bills due to incorrect tax exemption is not the LDC's responsibility and in most cases requires the Supplier to address directly with the customer.</p> | |
| PA Use: | Request: | Required if LDC is calculating the ESP portion of the bill |
| | Response: | Not Used |
| NJ Use: | Same as PA | |
| DE Use: | Same as PA | |
| MD Use: | Not Used | |
| | Maryland tax exemptions apply to a specific tax. Each tax has a separate AMT segment. The current applicable tax is State Sales tax (AMT*F7) | |
| Examples: | AMT*DP*.75 AMT*DP*.7599 | |

Data Element Summary

| | Ref. | Data | Name | X12 Attributes |
|-----------------|--------------|----------------|--|---|
| | Des. | Element | | |
| Must Use | AMT01 | 522 | Amount Qualifier Code | M ID 1/3 |
| | | | Code to qualify amount DP | Exemption |
| | | | | Tax Exemption: This code is used when a portion of the provided service is exempt from taxation. Element AMT02 identifies the percentage of the service that is tax exempt. |
| Must Use | AMT02 | 782 | Monetary Amount | M R 1/18 |
| | | | Monetary amount | |
| | | | For percentage values, the whole number "1" represents 100 percent; decimal numbers less than "1" represent percentages from 1 percent to 99.9999 percent. | |

Segment: **AMT** Monetary Amount (F7=Tax Exemption Percent-State Sales Tax)
Position: 060
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

| | |
|------------------|--|
| PA Use: | Not Used |
| NJ Use: | Not Used |
| DE Use: | Not Used |
| MD Use: | This field is used for the sending party to tell the receiving party the tax exemption amount that applies to the State Sales tax that should be entered into the receiving party's system in order to calculate a bill on the sender's behalf. This is required only for rate-ready LDC Consolidated billing where the LDC has loaded the ESP rates into their system, the LDC calculates the ESP charges, and places the ESP charges on the LDC bill A tax exemption certificate must be secured from the customer. Maryland tax exemptions apply to a specific tax. Each tax has a separate AMT segment. The current applicable tax is State Sales tax (AMT*F7) |
| Request: | Required if LDC is calculating ESP portion of the Bill |
| Response: | Not Used |
| Examples: | AMT*F7*.75 AMT*F7*.7599 |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|-----------------|------------------|---------------------|--|-----------------------|
| Must Use | AMT01 | 522 | Amount Qualifier Code Code to qualify amount F7 Sales Tax State Sales Tax Exemption: This code is used when a portion of the provided service is exempt from taxation. Element AMT02 identifies the percentage of the service that is tax exempt. | M ID 1/3 |
| Must Use | AMT02 | 782 | Monetary Amount Monetary amount For percentage values, the whole number "1" represents 100 percent; decimal numbers less than "1" represent percentages from 1 percent to 99.9999 percent. | M R 1/18 |

Segment: **AMT** Monetary Amount (5J=Load Management Device – Air Conditioner)
Position: 060
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

| | |
|------------------|--|
| PA Use: | Not Used |
| NJ Use: | Not Used |
| DE Use: | Same as Maryland |
| MD Use: | This field is used to indicate this account has some air conditioners that are part of the load management program. Note: If account does not have any air conditioners on the load management program, this segment will not be sent. |
| | Request: Required if there are any air conditioners on the account that are part of the load management program Response: Not Used |
| Examples: | AMT*5J*2 (Indicates there are two air conditioners on account in load management program) |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|-----------------|------------------|---------------------|--|-----------------------|
| Must Use | AMT01 | 522 | Amount Qualifier Code Code to qualify amount 5J Equipment Air conditioners that are part of load management program | M ID 1/3 |
| Must Use | AMT02 | 782 | Monetary Amount Monetary amount Whole number that indicates number of devices that are part of load management program. | M R 1/18 |

Segment: **AMT** Monetary Amount (L0=Load Management Device – Water Heater)
Position: 060
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

| | |
|------------------|--|
| PA Use: | Not Used |
| NJ Use: | Not Used |
| DE Use: | Same as Maryland |
| MD Use: | This field is used to indicate this account has some water heaters that are part of the load management program. Note: If account does not have any water heaters on the load management program, this segment will not be sent. |
| | Request: Required if there are any water heaters on the account that are part of the load management program Response: Not Used |
| Examples: | AMT*L0*1 (Indicates there is one water heater on account in load management program) |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|----------|------------------|---------------------|--|-----------------------|
| Must Use | AMT01 | 522 | Amount Qualifier Code Code to qualify amount L0 Liquid Assets Water Heaters that are part of load management program | M ID 1/3 |
| Must Use | AMT02 | 782 | Monetary Amount Monetary amount Whole number that indicates number of devices that are part of load management program. | M R 1/18 |

Segment: **AMT** Monetary Amount (KC=Peak Load Capacity)
Position: 060
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

| | |
|-----------------|--|
| Notes: | Zero values may be sent if the LDC is, in fact, stating that there is no contribution for this customer's account. |
| PA Use: | Request: Required for PJM Participants only Accept Response: Not Used Reject Response: Not Used |
| NJ Use: | Request: Required Response: Not Used NJ Note: PSE&G sends Capacity Obligation to PJM. |
| DE Use: | Same as NJ |
| MD Use: | Same as PA |
| Example: | AMT*KC*752 |

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>X12 Attributes</u> |
|----------|------------------|---------------------|--|--|
| Must Use | AMT01 | 522 | Amount Qualifier Code Code to qualify amount KC | M ID 1/3 Obligated Peak Load Capacity (a.k.a. Load Responsibility): Peak load contributions provided to PJM for Installed Capacity calculation (coincident with PJM peak). |
| Must Use | AMT02 | 782 | Monetary Amount Monetary amount Peak Load Capacity | M R 1/18 |

Segment: **AMT** Monetary Amount (KZ=Network Service Peak Load)
Position: 060
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

| | |
|-----------------|--|
| Notes: | Zero values may be sent if the LDC is, in fact, stating that there is no contribution for this customer's account. |
| PA Use: | Request: Required for PJM Participants only Response: Not Used |
| NJ Use: | Same as PA NJ Note: PSE&G sends Transmission Obligation to PJM. |
| DE Use: | Same as PA |
| MD Use: | Same as PA |
| Example: | AMT*KZ*752 |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|----------|------------------|---------------------|---|-----------------------|
| Must Use | AMT01 | 522 | Amount Qualifier Code Code to qualify amount KZ | M ID 1/3 |
| | | | Mortgager's Monthly Obligations | |
| | | | Network Service Peak Load: Customer's peak load contribution provided to PJM for the Transmission Service calculation (coincident with LDC peak). | |
| Must Use | AMT02 | 782 | Monetary Amount Monetary amount Network Service Peak Load | M R 1/18 |

Segment: **NM1** Individual or Organizational Name
Position: 080
Loop: NM1
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To supply the full name of an individual or organizational entity
Syntax Notes: 1 If either NM108 or NM109 is present, then the other is required.
 2 If NM111 is present, then NM110 is required.
Semantic Notes: 1 NM102 qualifies NM103.
Comments: 1 NM110 and NM111 further define the type of entity in NM101.

| | | | |
|------------------|---|----------|--|
| Notes: | This segment is used to convey meter level information. | | |
| PA Use: | Request: | Required | |
| | Response: | Not Used | |
| NJ Use: | Same as PA | | |
| DE Use: | Same as PA | | |
| MD Use: | Same as PA | | |
| Examples: | NM1*MQ*3*****32*1234568MG NM1*MQ*3*****32*UNMETERED | | |

Data Element Summary

| | Ref. | Data | | X12 Attributes |
|----------|-------------|----------------|--|-----------------------|
| | Des. | Element | Name | |
| Must Use | NM101 | 98 | Entity Identifier Code | M ID 2/3 |
| | | | Code identifying an organizational entity, a physical location, property or an individual MQ Meter Location | |
| Must Use | NM102 | 1065 | Entity Type Qualifier | M ID 1/1 |
| | | | Code qualifying the type of entity 3 Unknown The entity name is not segmented; if sent, it is transmitted in NM103 only. | |
| Must Use | NM108 | 66 | Identification Code Qualifier | X ID 1/2 |
| | | | Code designating the system/method of code structure used for Identification Code (67) 32 Assigned by Property Operator Meter Number | |
| Must Use | NM109 | 67 | Identification Code | X AN 2/80 |
| | | | Code identifying a party or other code Meter Number UNMETERED – for Unmetered Services on the Request transaction | |

Segment: **REF** Reference Identification (LF=Loss Factor)
Position: 130
Loop: NM1
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:

| | | |
|-----------------|-----------------------------|--|
| PA Use: | Request: | Required for First Energy Companies; Optional for others |
| | CE Accept Response: | Not Used |
| | All other Accept Responses: | Not Used |
| | Reject Response: | Not Used |
| NJ Use: | Not Used | |
| DE Use: | Not Used | |
| MD Use: | Same as PA | |
| Example: | REF*LF*2 | |

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>X12 Attributes</u> |
|----------|------------------|---------------------|--|-----------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification LF Load Planning Number Loss Factor | 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 | X AN 1/30 |

Segment: **REF** Reference Identification (LO=Load Profile)
Position: 130
Loop: NM1
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:

| | | |
|-----------------|------------|---|
| PA Use: | Request: | Required for each non-interval meter that is used for billing purposes. This segment must also be sent when account has UNMETERED services available for generation service. If a Load Profile does not exist for this customer, this segment will not be sent. |
| | Response: | Not Used |
| NJ Use: | Same as PA | |
| DE Use: | Same as PA | |
| MD Use: | Same as PA | |
| Example: | REF*LO*GS | |

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>X12 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 | X AN 1/30 |

Segment: **REF** Reference Identification (NH=LDC Rate Class)
Position: 130
Loop: NM1
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:

| | | |
|-----------------|------------|---|
| PA Use: | Request: | Required for each meter that is used for billing purposes. This segment must also be sent when account has UNMETERED services available for generation service. |
| | Response: | Not Used |
| NJ Use: | Same as PA | |
| DE Use: | Same as PA | |
| MD Use: | Same as PA | |
| Example: | REF*NH*RS1 | |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|----------|------------------|---------------------|--|-----------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification NH Rate Card Number Identifies a LDC rate class or tariff | 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 | X AN 1/30 |

Segment: **REF** Reference Identification (PR=LDC Rate Subclass)
Position: 130
Loop: NM1
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:

| | | |
|-----------------|------------|--|
| PA Use: | Request: | Conditional: If maintained by utility, must be sent for each meter that is used for billing purposes. This segment must also be sent when account has UNMETERED services available for generation service. |
| | Response: | Not Used |
| NJ Use: | Same as PA | |
| DE Use: | Not Used | |
| MD Use: | Same as PA | |
| Example: | REF*PR*123 | |

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>X12 Attributes</u> |
|----------|------------------|---------------------|---|-----------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification PR Price Quote Number LDC Rate Subclass – Used to provide further classification of a rate. | 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 | X AN 1/30 |

Segment: **REF** Reference Identification (RB=ESP Rate Code)
Position: 130
Loop: NM1
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:

| | |
|-----------------|--|
| PA Use: | Rate codes are established between the LDC and ESP prior to Enrollment. Request: Required if the LDC is calculating the ESP charges (Rate Ready) This segment must also be sent when account has UNMETERED services available for generation service (Rate Ready). Response: Not Used |
| NJ Use: | Same as PA. However, on the Request, this segment will only be used in JCP&L territory for Rate Ready. |
| DE Use: | Same as PA Delmarva Note: Not Used until Delmarva implements Rate Ready |
| MD Use: | Same as PA |
| Example: | REF*RB*A29 |

Data Element Summary

| | <u>Ref.</u> | <u>Data</u> | <u>Name</u> | <u>X12 Attributes</u> |
|----------|--------------|----------------|--|-----------------------|
| | <u>Des.</u> | <u>Element</u> | | |
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification RB Rate code number ESP Rate Code for the customer | 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 | X AN 1/30 |

Segment: **REF** Reference Identification (SV=Service Voltage)
Position: 130
Loop: NM1
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:

| | | |
|-----------------|-----------------------------|--|
| PA Use: | Request: | Required for First Energy Companies; Optional for others |
| | CE Accept Response: | Not Used |
| | All other Accept Responses: | Not Used |
| | Reject Response: | Not Used |
| NJ Use: | Not Used | |
| DE Use: | Not Used | |
| MD Use: | Same as PA | |
| Example: | REF*SV*SECONDARY | |

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>X12 Attributes</u> |
|----------|------------------|---------------------|---|-----------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification SV Service Charge Number Service Voltage | 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 PRIMARY SECONDARY Actual service voltage transmission value (Ex: 34.5kV) | X AN 1/30 |

Segment: **REF** Reference Identification (TZ=Meter Cycle)
Position: 130
Loop: NM1
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:

| | | |
|-----------------|------------|---|
| PA Use: | Request: | Required for each meter that is used for billing purposes. This segment is optional in the NM1 Loop for UNMETERED services. |
| | Response: | Not Used |
| NJ Use: | Same as PA | |
| DE Use: | Same as PA | |
| MD Use: | Same as PA | |
| Example: | REF*TZ*15 | |

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>X12 Attributes</u> |
|----------|------------------|---------------------|--|-----------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification TZ Total Cycle Number LDC Meter Cycle. Cycle number when the meter will be read. | 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 | X AN 1/30 |

Segment: **REF** Reference Identification (MT=Meter Type)
Position: 130
Loop: NM1
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:

| | |
|-----------------|--|
| PA Use: | There will be only be one REF*MT segment for each NM1 loop. If there are multiple meter types on this meter, only one REF*MT will be sent. It will contain the code COMBO . The specific meter type will be identified in the REF03 field in subsequent REF segments for this meter (i.e. REF*4P, REF*IX, REF* TU). Request: Required for each meter that is used for billing purposes. This segment will not be provided in the NM1 loop for UNMETERED services. Response: Not Used |
| NJ Use: | Same as PA |
| DE Use: | Same as PA |
| MD Use: | Same as PA |
| Example: | REF*MT*KHMON REF*MT*COMBO REF*MT*COMBO*SMART REF*MT*COMBO*I |

Data Element Summary

| Ref. Des. | Data Element | Name | X12 Attributes |
|--------------------------|--------------|---|------------------|
| 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, except for the combination meter that records more than one measurement and is noted as "COMBO". Valid values can be a combination of the following values: | X AN 1/30 |

Type of Consumption

| | |
|----|----------------------------------|
| K1 | Kilowatt Demand |
| K2 | Kilovolt Amperes Reactive Demand |
| K3 | Kilovolt Amperes Reactive Hour |
| K4 | Kilovolt Amperes |
| K5 | Kilovolt Amperes Reactive |
| KH | Kilowatt Hour |
| T9 | Thousand Kilowatt Hours |

Metering Interval

| | |
|-----|-----------------------------------|
| Nnn | Number of minutes from 001 to 999 |
| ANN | Annual |
| BIA | Bi-annual |
| BIM | Bi-monthly |
| DAY | Daily |
| MON | Monthly |
| QTR | Quarterly |

For Example:

| | |
|-------|--|
| KHMON | Kilowatt Hours Per Month |
| K1015 | Kilowatt Demand per 15 minute interval |

Other Valid Codes

| | |
|-------|--|
| COMBO | This code is used to indicate that the meter has multiple measurements, e.g., one meter that measures both kWh and Demand. |
|-------|--|

Optional

REF03

352

Description

X AN 1/80

A free-form description to clarify the related data elements and their content
Atlantic City Electric, Delmarva DE, Delmarva MD, & PECO MD Use:
sends 'SMART' in the REF03 to denote meter is an AMI/Smart meter.

PECO PA Use: When REF01 is MT, valid values for REF03 are:

I – Interval data available

M – Interval data NOT available

Segment: **REF** Reference Identification (4P=Meter Multiplier)
Position: 130
Loop: NM1
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:

| | |
|-----------------|---|
| PA Use: | There will be one REF*4P segment for each Meter Type. This means that there may be more than one REF*4P segment per meter. For instance, when meter type is "COMBO", there may be a REF*4P to indicate the meter constant for the demand (example: REF*4P*1200*K1015) and a REF*4P to indicate the meter constant for the kWh (example: REF*4P*2400*KH015). Request: Required for each meter type for each meter that is used for billing purposes. This segment will not be provided in the NM1 loop for UNMETERED services. Response: Not Used |
| NJ Use: | Same as PA |
| DE Use: | Same as PA |
| MD Use: | Same as PA |
| Example: | REF*4P*10*KHMON REF*4P*100*K1MON |

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>X12 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 Multiplier = Billed Usage | 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 | X AN 1/30 |
| Must Use | REF03 | 352 | Description A free-form description to clarify the related data elements and their content Meter Type (see REF*MT for valid codes) "COMBO" is not a valid code in this element. | X AN 1/80 |

Segment: **REF** Reference Identification (IX=Number of Dials/Digits)
Position: 130
Loop: NM1
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:

| | |
|------------------|--|
| PA Use: | There will be one REF*IX segment for each Meter Type. This means that there may be more than one REF*IX segment per meter. For instance, when meter type is "COMBO", there may be a REF*IX to indicate the dials for the demand (example: REF*IX*5.1*K1015) and a REF*IX to indicate the dials for the kWh (example: REF*IX*6.0*KH015). Request: Required for each meter type for each meter that is used for billing purposes that has dials. This segment will not be provided in the NM1 loop for UNMETERED services. Response: Not Used |
| NJ Use: | Same as PA |
| DE Use: | Same as PA |
| MD Use: | Same as PA |
| Examples: | REF*IX*6.0*KHMON REF*IX*5.1*K1MON REF*IX*4.2*K1015 |

Data Element Summary

| | Ref. Des. | Data Element | Name | X12 Attributes |
|----------|------------------|---------------------|--|-----------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification IX Item Number Number of Dials on the Meter displayed as the number of dials to the left of the decimal, a decimal point, and the number of dials to the right of the decimal. | 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 | X AN 1/30 |
| Must Use | REF03 | 352 | Description A free-form description to clarify the related data elements and their content Meter Type (see REF*MT for valid codes). "COMBO" is not a valid code in this element. | X AN 1/80 |

| # Dials | Positions to left of decimal | Positions to right of decimal | X12 Example |
|---------|------------------------------|-------------------------------|-------------|
| 6 | 6 | 0 | REF*IX*6.0 |
| 6 | 5 | 1 | REF*IX*5.1 |
| 6 | 4 | 2 | REF*IX*4.2 |

Segment: **REF** Reference Identification (TU=Type of Metering)
Position: 130
Loop: NM1
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:

| | | |
|-----------------|--|---|
| PA Use: | There will be one REF*TU segment for each Time Of Use reading (for each meter type for each meter) that will be provided on the 867. | |
| | Request: | Required for each meter type for each non-interval meter that is used for billing purposes. This segment is provided for UNMETERED services and reflects the type of usage that is reported on the 867. |
| | Response: | Not Used |
| NJ Use: | Same as PA | |
| DE Use: | Same as PA | |
| MD Use: | Same as PA | |
| Example: | REF*TU*41*K1MON REF*TU*42*K1MON REF*TU*51*K1MON | Multiple TU's will usually be sent on each 814!!! |

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>X12 Attributes</u> |
|----------|------------------|---------------------|--|-----------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification TU Trial Location Code Used to indicate the type of metering information that will be sent on the 867 transaction. | 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 41 Off Peak 42 On Peak 43 Intermediate 51 Totalizer | X AN 1/30 |
| Must Use | REF03 | 352 | Description A free-form description to clarify the related data elements and their content Meter Type (see REF*MT for valid codes). "COMBO" is not a valid code for this element. | X AN 1/80 |

Segment: **SE** Transaction Set Trailer
Position: 150
Loop:
Level: Detail
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.

| | |
|-----------------|----------------|
| PA Use: | Required |
| NJ Use: | Required |
| DE Use: | Required |
| MD Use: | Required |
| Example: | SE*28*00000001 |

Data Element Summary

| | Ref. | Data | | X12 Attributes |
|----------|-------------|----------------|---|-----------------------|
| | Des. | Element | Name | |
| 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 | |

814 Reinstatement Examples:

Example: Reinstatement Request

Rate Ready: Reinstatement of Generation services only. Account has 2 meters. Meter 123857G measures kwh and kw (on and off peak), Meter 218737S measures kwh (totalized only).

| | |
|---------------------------------------|--|
| BGN*13*199904011956531*19990401 | BGN segment indicating this is a Request transaction. |
| N1*8S*LDC COMPANY*1*007909411**41 | LDC Name, LDC DUNS information, submitter |
| N1*SJ*ESP COMPANY*9*007909422ESP1**40 | ESP Name, ESP DUNS information, receiver |
| N1*8R*CUSTOMER NAME*92*1210 | Customer Name and reference number |
| N3*123 N MAIN ST*FLR 13 | Service address |
| N4*ANYTOWN*PA*18111**CO*LEHIGH | City/State/Zip and County for Service Address. |
| PER*IC*MARY JONES*TE*8005559876 | Customer Contact name and telephone number |
| N1*BT*ACCOUNTS PAYABLE DEPT | Bill to party |
| N3*100 WEST AVENUE | Bill to address |
| N4*ANYTOWN*PA*18111 | Bill to City/State/Zip |
| PER*IC*KELLY WEST*TE*8005559876 | Bill To Contact name and telephone number |
| N1*PK*FRANK SMITH | Party to Receive Copy Name |
| N3*459 AVENUE B | Party to Receive Copy Address |
| N4*ANYTOWN*PA*18111 | Party to Receive Copy City/State/Zip |
| PER*IC*FRANK SMITH*TE*8005559876 | Party to Receive Copy Name |
| N1*2C*CAROL WRIGHT | Co-Participant Name |
| N3*23948 MAIN STREET | Co-Participant Address |
| N4*ANYTOWN*PA*18111 | Co-Participant City/State/Zip |
| PER*IC*CAROL WRIGHT*TE*8005559876 | Co-Participant Name and telephone number |
| LIN*REIN19991231002*SH*EL*SH*CE | Transaction reference number, and enrollment request for generation services |
| ASI*7*025 | Reinstatement Request |
| REF*11*2348400586 | ESP Account Number |
| REF*12*293839200 | LDC Account Number |
| REF*BF*18 | LDC Billing Cycle |
| REF*BLT*LDC | LDC consolidates the LDC and ESP charges |
| REF*PC*LDC | LDC calculates ESP charges |
| REF*SPL**PJM192478939901287748 | Indicates PJM LMP Bus Number |
| DTM*007*19990401*1430*ET | Customer contacted LDC to reinstate ESP. |
| DTM*150*19990425 | Estimated Start Date |
| AMT*7N*1 | Participating interest |
| AMT*DP*1 | Tax Exemption Percent Note: In MD, the relevant tax segment would be sent (AMT*F7) |
| AMT*5J*2 | Air conditioners in load cycling program |
| AMT*L0*1 | Water Heaters in load cycling program |
| AMT*QY*1 | Eligible Load Percentage |
| AMT*KC*12.8 | Peak Load Capacity |
| AMT*KZ*14.1 | Network Service Peak Load |
| NM1*MQ*3*****32*123857G | Meter Number |
| REF*LO*GS | LDC Load Profile |
| REF*NH*GS1 | LDC Rate class |
| REF*PR*123 | LDC Rate Subclass |
| REF*RB*0300 | ESP Rate Code |
| REF*TZ*18 | LDC Meter Reading Cycle |
| REF*MT*COMBO | Meter Type |

| | |
|-------------------------|--|
| REF*4P*1*KHMON | Meter constant on the kWh register |
| REF*IX*6.1*KHMON | Number of dials/digits |
| REF*TU*41*KHMON | Off peak metering information sent on the 867 |
| REF*TU*42*KHMON | On peak metering information sent on the 867 |
| REF*4P*1*K1MON | Meter constant on the demand (kW) register |
| REF*IX*5.0*K1MON | Number of dials/digits |
| REF*TU*41*K1MON | Off Peak metering information sent on the 867 |
| REF*TU*42*K1MON | On Peak metering information sent on the 867 |
| NM1*MQ*3*****32*218737S | Meter Number |
| REF*LO*GS | LDC Load Profile |
| REF*NH*GS1 | LDC Rate class |
| REF*PR*123 | LDC Rate Subclass |
| REF*RB*0300 | ESP Rate Code |
| REF*TZ*18 | LDC Meter Cycle |
| REF*MT*KHMON | Meter Type |
| REF*4P*1*KHMON | Meter Constant |
| REF*IX*5.0*KHMON | Number of dials/digits |
| REF*TU*51*KHMON | Totalized metering information sent on the 867 |

Bill Ready: Reinstatement of Generation services only. Account has 2 meters. Meter 123857G measures kWh and kW (on and off peak), Meter 218737S measures kWh (totalized only).

| | |
|---------------------------------------|--|
| BGN*13*199904011956531*19990401 | BGN segment indicating this is a Request transaction. |
| N1*8S*LDC COMPANY*1*007909411**41 | LDC Name, LDC DUNS information, submitter |
| N1*SJ*ESP COMPANY*9*007909422ESP1**40 | ESP Name, ESP DUNS information, receiver |
| N1*8R*CUSTOMER NAME*92*1210 | Customer Name and reference number |
| N3*123 N MAIN ST*FLR 13 | Service address |
| N4*ANYTOWN*PA*18111 | City/State/Zip for Service Address. |
| PER*IC*MARY JONES*TE*8005559876 | Customer Contact name and telephone number |
| N1*BT*ACCOUNTS PAYABLE DEPT | Bill to party |
| N3*100 WEST AVENUE | Bill to address |
| N4*ANYTOWN*PA*18111 | Bill to City/State/Zip |
| PER*IC*KELLY WEST*TE*8005559876 | Bill To Contact name and telephone number |
| N1*PK*FRANK SMITH | Party to Receive Copy Name |
| N3*459 AVENUE B | Party to Receive Copy Address |
| N4*ANYTOWN*PA*18111 | Party to Receive Copy City/State/Zip |
| PER*IC*FRANK SMITH*TE*8005559876 | Party to Receive Copy Name |
| N1*2C*CAROL WRIGHT | Co-Participant Name |
| N3*23948 MAIN STREET | Co-Participant Address |
| N4*ANYTOWN*PA*18111 | Co-Participant City/State/Zip |
| PER*IC*CAROL WRIGHT*TE*8005559876 | Co-Participant Name and telephone number |
| LIN*REIN19991231002*SH*EL*SH*CE | Transaction reference number, and enrollment request for generation services |
| ASI*7*025 | Reinstatement Request |
| REF*11*2348400586 | ESP Account Number |
| REF*12*293839200 | LDC Account Number |
| REF*BF*18 | LDC Billing Cycle |
| REF*BLT*LDC | LDC consolidates the LDC and ESP charges |
| REF*PC*DUAL | Each party calculates its own charges (Bill Ready) |
| REF*NR*N | Budget Billing Status |
| REF*SPL**PJM192478939901287748 | Indicates PJM LMP Bus Number |
| DTM*007*19990401*1430*ET | Customer contacted LDC to reinstate ESP. |
| DTM*150*19990425 | Estimated Start Date |
| AMT*7N*1 | Participating interest |

| | |
|-------------------------|--|
| AMT*5J*2 | Air conditioners in load cycling program |
| AMT*L0*1 | Water Heaters in load cycling program |
| AMT*QY*1 | Eligible Load Percentage |
| AMT*KC*12.8 | Peak Load Capacity |
| AMT*KZ*14.1 | Network Service Peak Load |
| NM1*MQ*3*****32*123857G | Meter Number |
| REF*LO*GS | LDC Load Profile |
| REF*NH*GS1 | LDC Rate class |
| REF*PR*123 | LDC Rate Subclass |
| REF*TZ*18 | LDC Meter Reading Cycle |
| REF*MT*COMBO | Meter Type |
| REF*4P*1*KHMON | Meter constant on the kWh register |
| REF*IX*6.1*KHMON | Number of dials/digits |
| REF*TU*41*KHMON | Off peak metering information sent on the 867 |
| REF*TU*42*KHMON | On peak metering information sent on the 867 |
| REF*4P*1*K1MON | Meter constant on the demand (kW) register |
| REF*IX*5.0*K1MON | Number of dials/digits |
| REF*TU*41*K1MON | Off Peak metering information sent on the 867 |
| REF*TU*42*K1MON | On Peak metering information sent on the 867 |
| NM1*MQ*3*****32*218737S | Meter Number |
| REF*LO*GS | LDC Load Profile |
| REF*NH*GS1 | LDC Rate class |
| REF*PR*123 | LDC Rate Subclass |
| REF*TZ*18 | LDC Meter Cycle |
| REF*MT*KHMON | Meter Type |
| REF*4P*1*KHMON | Meter Constant |
| REF*IX*5.0*KHMON | Number of dials/digits |
| REF*TU*51*KHMON | Totalized metering information sent on the 867 |

Example: Reinstatement Response – Accepted

Rate Ready & Bill Ready: Account has 2 meters. Meter 123857G measures kwh and kw (on and off peak), Meter 218737S measures kwh (totalized only).

| | |
|---|--|
| BGN*11*199904020830531*19990402***199904011956531 | BGN segment indicating this is a Response transaction, and referencing the original Request transaction |
| N1*8S*LDC COMPANY*1*007909411**40 | LDC Name and DUNS information (receiver) |
| N1*SJ*ESP COMPANY*9*007909422ESP1**41 | ESP Name and DUNS information (submitter) |
| N1*8R*CUSTOMER NAME | Customer Name |
| LIN*REIN199912310002*SH*EL*SH*CE | Transaction reference number, and enrollment request for generation services (This is echoed from request transaction) |
| ASI*WQ*025 | Accept Reinstatement request |
| REF*11*2348400586 | ESP Account Number |
| REF*12*293839200 | LDC Account Number |

Example: Reinstatement Response – Rejected

Rate Ready & Bill Ready: Reinstatement was rejected due to an invalid LDC Account Number.

| | |
|---|--|
| BGN*11*199904020830531*19990402***199904011956531 | BGN segment indicating this is a Response transaction, and referencing the original Request transaction |
| N1*8S*LDC COMPANY*1*007909411**40 | LDC Name and DUNS information (receiver) |
| N1*SJ*ESP COMPANY*9*007909422ESP1**41 | ESP Name and DUNS information (submitter) |
| N1*8R*CUSTOMER NAME | Customer Name |
| LIN*REIN19991231002*SH*EL*SH*CE | Transaction reference number, and enrollment request for generation services (This is echoed from request transaction) |
| ASI*U*025 | Reject Reinstatement request |
| REF*7G*A76*ACCOUNT NOT FOUND | Account not found on LDC system |
| REF*11*2348400586 | ESP Account Number |
| REF*12*293839200 | LDC Account Number |

Example: Reinstatement Request for Renewable Energy Provider

This example only shows the first few segments to show N1*G7 segment LIN05 value of “RC” used by Renewable Energy Provider. Remaining segments would be identical to those used for an ESP transaction.

| | |
|--|--|
| BGN*13*199904011956531*19990401 | BGN segment indicating this is a Request transaction. |
| N1*8S*LDC COMPANY*1*007909411**41 | LDC Name, LDC DUNS information, submitter |
| N1*G7*RENEWABLE CO*9*007909422GPM1**40 | Renewable Energy Provider Name and DUNS information, receiver |
| N1*8R*CUSTOMER NAME*92*1210 | Customer Name and reference number |
| | |
| LIN*REIN19991231002*SH*EL*SH*RC | Transaction reference number, and enrollment request for renewable energy certificate services |
| ASI*7*025 | Reinstatement Request |
| REF*11*2348400587 | Renewable Energy Provider Account Number |
| REF*12*293839201 | LDC Account Number |