

January 9, 2002
Version 3.0

**Pennsylvania
New Jersey
Delaware
Maryland**

Implementation Guideline

For
Electronic Data Interchange

TRANSACTION SET

814

Reinstatement

Request and Response

Ver/Rel 004010

January 9, 2002

Version 3.0

Segment: REF Reference Identification (4P=Meter Multiplier).....	68	Deleted:
Segment: REF Reference Identification (IX=Number of Dials/Digits).....	69	Deleted:
Segment: REF Reference Identification (TU=Type of Metering)	70	Deleted:
Segment: SE Transaction Set Trailer.....	71	Deleted:
814 Reinstatement Examples:.....	72	Deleted:
Example: Reinstatement Request	72	Deleted:
Example: Reinstatement Response – Accepted.....	75	Deleted:
Example: Reinstatement Response – Rejected.....	75	Deleted:
		Deleted:
		Deleted:

January 9, 2002

Version 3.0

Summary of Changes

June 12, 1999
Version 1.0

- 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.

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.

June 29, 1999
Version 2.0

- 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"

Re-released as a result of changes to the data dictionary.

July 2, 1999
Version 2.1

July 14, 1999
Version 2.2

Change Control Process Change #001:

- Corrected On/Off Peak in REF*TU and examples. The codes 41 and 42 were reversed.

October 1, 1999
DRAFT Version 2.2b

- Corrected X12 code description for REF*IX to "Item Number"
- Added Delaware (Conectiv) 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

January 9, 2002

Version 3.0

	<ul style="list-style-type: none"> • 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
	<ul style="list-style-type: none"> • 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. • REF*BF – modify NJ Use to reflect what use is. Note that had been added for PA was only addressed for PA. Indicate DE Conectiv 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
August 11, 2000 Version 2.4a	<ul style="list-style-type: none"> • This document is a new finalized version of PA and MD. NJ is still using Version 2.3. • REF*BF – modify NJ Use to reflect what use is. Note that had been added for PA was only addressed for PA. Indicate DE Conectiv 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 (Conectiv 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.

January 9, 2002
Version 3.0

January 9, 2002

Version 3.0

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.
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)

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.
Comments:

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

January 9, 2002

Version 3.0

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.

January 9, 2002

Version 3.0

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)
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)

January 9, 2002

Version 3.0

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	Indicates a customer request to switch to the designated ESP with which he or she has signed a contract for generation services.	LIN05 = CE	LIN02 = SH LIN03 = EL LIN04 = SH	X(2)

January 9, 2002

Version 3.0

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)
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(2)
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 or summary level.	REF02= SUMMARY or DETAIL	LIN: REF01= 17	X(30)
63	Customer Contacted LDC to Reinstate 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)
<i>Note that the following AMT segments may appear in any order on the actual EDI transaction.</i>					

January 9, 2002

Version 3.0

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	Capacity Obligation	Peak load contributions provided to PJM for Installed Capacity calculation (coincident with PJM's peak)	AMT02	LIN: AMT01= KC	9(9).99
77	Transmission Obligation	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	ESP Rate	Actual ESP Billing Rate to be used by LDC to calculate ESP charges	AMT02	LIN: AMT01= RJ	9(2).9(4)
79	Meter Number	Number which identifies meter	Request: NM109= [meter number] or UNMETERED	NM101= MQ NM102= 3 NM108= 32	X(30)
<i>Note that the following REF segments may appear in any order on the actual EDI transaction.</i>					
90	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)

January 9, 2002

Version 3.0

91	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)
92	LDC Rate Subclass Code	Used to provide further classification of a rate.	REF02	NM1: REF01= PR	X(30)
93	ESP Rate Code	Rate code identified by LDC that reflects the ESP billing rate category	REF02	NM1: REF01= RB	X(30)
94	LDC Meter Cycle	LDC Cycle on which the meter will be read	REF02	NM1: REF01= TZ	X(2)
95	Meter Type	Type of Meter	REF02	NM1: REF01= MT	X(5)
<i>The following three fields each require that the Meter Type be shown in REF03:</i>					
100	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
101	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
102	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)

January 9, 2002

Version 3.0

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		X12 Attributes
	Des.	Element	Name	
Must Use	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set	
			814 General Request, Response or Confirmation	
Must Use	ST02	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	

January 9, 2002

Version 3.0

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.	Data	X12 Attributes
	Des.	Element Name	
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

January 9, 2002

Version 3.0

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

January 9, 2002

Version 3.0

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.	Data		X12 Attributes
	Des.	Element	Name	
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			SJ Service Provider	
			ESP	
Must Use	N102	93	Name	X AN 1/60
			Free-form name	
			ESP Company Name	
Must Use	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
Must Use	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
			ESP D-U-N-S Number or D-U-N-S + 4 Number	
Must Use	N106	98	Entity Identifier Code	O ID 2/3
			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	

January 9, 2002

Version 3.0

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.
	Note: Allegheny will validate on first four characters of the Last Name or Company Name as it appears on Customer's Bill
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 PA: APS will validate on the first four characters of the Last Name or Company 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

January 9, 2002

Version 3.0

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

January 9, 2002

Version 3.0

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.	Data	X12 Attributes
	Des.	Element Name	
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. CO County/Parish and State	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, APS will send county field when premise is in a taxable county	O AN 1/30

January 9, 2002

Version 3.0

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

January 9, 2002

Version 3.0

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.	Data		X12 Attributes
	Des.	Element	Name	
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			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	
Must Use	N102	93	Name	X AN 1/60
			Free-form name	

January 9, 2002

Version 3.0

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

January 9, 2002

Version 3.0

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

January 9, 2002

Version 3.0

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

January 9, 2002

Version 3.0

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) - GPU, Rockland – Maintained in their system for some customers - Conectiv, 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.	Data		X12 Attributes
	Des.	Element	Name	
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			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.	
Must Use	N102	93	Name	X AN 1/60
			Free-form name	

January 9, 2002

Version 3.0

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 – GPU, Rockland – Maintained in their system for some customers Conectiv, 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.	Data		X12 Attributes
	Des.	Element	Name	
Must Use	N301	166	Address Information Address information	M AN 1/55
Optional	N302	166	Address Information Address information	O AN 1/55

January 9, 2002

Version 3.0

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 – GPU, Rockland – Maintained in their system for some customers Conectiv, 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.	Data		X12 Attributes
	Des.	Element	Name	
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

January 9, 2002

Version 3.0

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

January 9, 2002

Version 3.0

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 - GPU, Rockland, Conectiv – Maintained in their system for some customers - PSE&G – 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 - Conectiv – Maintained in their system for some customers - BG&E, PEPCO, APS – Not maintained in their system - Choptank –Checking on status
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
Example:	N1*2C*THOMAS SMITH	

Data Element Summary

Ref.	Data			<u>X12 Attributes</u>
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			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.	
Must Use	N102	93	Name	X AN 1/60
			Free-form name	

January 9, 2002

Version 3.0

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 - GPU, Rockland, Conectiv – Maintained in their system for some customers - PSE&G – Not maintained in their system
DE Use:	Request: Optional Response: Not Used
MD Use:	Same as PA Conectiv – Maintained in their system for some customers BG&E, PEPCO, APS – not maintained in their system Choptank –Checking on status
Example:	N3*4251 S ELECTRIC ST*MS 25

Data Element Summary

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

January 9, 2002

Version 3.0

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 GPU, Rockland, Conectiv – Maintained in their system for some customers PSE&G – Not maintained in their system
DE Use:	Request: Optional Response: Not Used
MD Use:	Same as PA Conectiv – Maintained in their system for some customers BG&E, PEPCO, APS – not maintained in their system Choptank –Checking on status
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

January 9, 2002

Version 3.0

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 GPU, Rockland, Conectiv – Maintained in their system for some customers PSE&G – Not maintained in their system
DE Use:	Request: Optional Response: Not Used
MD Use:	Same as PA Conectiv – Maintained in their system for some customers BG&E, PEPCO, APS – 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

	Ref.	Data		X12 Attributes
	Des.	Element	Name	
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

January 9, 2002

Version 3.0

Segment:	LIN Item Identification
Position:	010
Loop:	LIN
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify basic item identification data
Syntax Notes:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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.

UIG Notes:	The 3070 version of the 814 guideline allowed all services to be transmitted in one LIN segment. This was difficult to process and track. Version 4010 restricts the use of LIN03 to identify the product (electric vs. gas) and LIN05 to identify the service being requested. For example, <i>LIN*23451*SH*EL*SH*CE</i> indicates that the product is electric and 'generation services' is the service being requested. Multiple LINs may be sent to request multiple services for one account. Other examples: <i>LIN*23451*SH*EL*SH*HU</i> \ requests historical usage of electric service <i>LIN*23451*SH*GAS*SH*MI</i> \ requests meter information on the gas service
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:	<i>LIN*REIN1999123108000001*SH*EL*SH*CE</i>

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
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. This tracking number was provided in REF*TN in Version 3070.	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

January 9, 2002

Version 3.0

Must Use	LIN03	234	Product/Service ID	M	AN 1/48
			Identifying number for a product or service		
			EL Electric Service		
			Identifies the product		
Must Use	LIN04	235	Product/Service ID Qualifier	M	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
			SH Service Requested		
Must Use	LIN05	234	Product/Service ID	M	AN 1/48
			Identifying number for a product or service		
			CE Generation Services		
			Indicates this transaction is related to Generation Services.		

January 9, 2002

Version 3.0

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

January 9, 2002

Version 3.0

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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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

Ref.	Data		<u>X12 Attributes</u>
<u>Des.</u>	<u>Element</u>	<u>Name</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: edtwg@ls.eei.org

NJ Listserver: njbpu@ls.eei.org

January 9, 2002

Version 3.0

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 edtwg@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.		

January 9, 2002

Version 3.0

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
	**Note: In New Jersey, Conectiv, GPU and PSE&G will store ESP account number and will be required to send it in response if it was provided on the request. Rockland Electric will not be storing ESP account number, and will never send it on a response transaction. Conectiv will only be storing 20 characters.	
DE Use:	Conectiv will store ESP account number and will be required to send it if it was previously provided to the LDC. Conectiv will only be storing 20 characters. DEC will be storing 30 characters.	
MD Use:	Same as PA Note: Conectiv will store ESP account number, but will only store 20 characters.	
Example:	REF*11*2348400586	

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	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			ESP-assigned account number for end use customer.	
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	

January 9, 2002

Version 3.0

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

January 9, 2002

Version 3.0

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 Note: PSE&G will not provide old LDC Account Number.
DE Use:	Not Used
MD Use:	Not Used by BGE, PEPCO, or Conectiv. APS: Required if the account number has changed in the last 60 days.
Example:	REF*45*1105687500

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>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

January 9, 2002

Version 3.0

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

January 9, 2002

Version 3.0

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

	<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 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

January 9, 2002

Version 3.0

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

January 9, 2002

Version 3.0

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.

January 9, 2002

Version 3.0

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 Will be provided for APS Rate Ready Billed Customers Optional for others
Response:	Not Used
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Same as PA Used by APS for Rate Ready Customers only; Not used by any other utilities
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	M ID 2/3
			Code qualifying the Reference Identification	
			NR Progress Payment Number	
			Used to convey LDC Budget Billing Status	
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	
			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.	

January 9, 2002

Version 3.0

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**NOT SURE OF AN EXAMPLE

Data Element Summary

	<u>Ref.</u>	<u>Data</u>		<u>X12 Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</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

January 9, 2002

Version 3.0

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:	<p>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".</p> <p>Note: The REF*17 is being sent under the LIN05 code of "CE" as part of the reinstatement.</p> <p>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.</p> <p>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.</p> <p>Response: Not Used</p>
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Same as PA
Example:	REF*17*SUMMARY

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
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.	X AN 1/30

January 9, 2002

Version 3.0

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

January 9, 2002

Version 3.0

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

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

January 9, 2002

Version 3.0

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.	Data	Name	X12 Attributes
Des.	Element	Code	ID
Must Use	AMT01	522	M ID 1/3
		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.
Must Use	AMT02	782	M R 1/18
		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.	

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%)

January 9, 2002

Version 3.0

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%)

January 9, 2002

Version 3.0

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:	This field is used for the sending party to tell the receiving party the tax exemption amount 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.	
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

	<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 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.	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

January 9, 2002

Version 3.0

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:	<p>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.</p> <p>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)</p>
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

January 9, 2002

Version 3.0

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

January 9, 2002

Version 3.0

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.	Data		X12 Attributes
	Des.	Element	Name	
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

January 9, 2002

Version 3.0

Segment: **AMT** Monetary Amount (KC=Capacity Obligation-aka Load Responsibility)
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 obligation 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
DE Use:	Same as NJ	
MD Use:	Same as PA	
Example:	AMT*KC*752	

Data Element Summary

	Ref.	Data		X12 Attributes
	Des.	Element	Name	
Must Use	AMT01	522	Amount Qualifier Code	M ID 1/3
			Code to qualify amount	
			KC	Obligated
				Capacity Obligation (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	M R 1/18
			Monetary amount	
			Capacity Obligation/Load Responsibility	

January 9, 2002

Version 3.0

Segment: **AMT** Monetary Amount (KZ=Transmission Obligation)
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 obligation for this customer's account.	
PA Use:	Request:	Required for PJM Participants only
	Response:	Not Used
NJ Use:	Same as PA	
DE Use:	Same as PA	
MD Use:	Same as PA	
Example:	AMT*KZ*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 KZ	M ID 1/3
			Mortgager's Monthly Obligations Transmission Obligation: 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 Transmission Obligation	M R 1/18

January 9, 2002

Version 3.0

Segment: **AMT** Monetary Amount (RJ=ESP Rate Amount)
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:	Request:	Required in Rockland Electric territory when LDC is calculating ESP charges. Not valid for other LDCs. Rate will be applied per kWh.
	Response:	Not Used
DE Use:	Not Used	
MD Use:	Not Used	
Example:	AMT*RJ*.0345	

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 RJ Rate Amount	M ID 1/3
Must Use	AMT02	782	Monetary Amount Monetary amount ESP Rate for the customer displayed as a monetary amount.	M R 1/18
			ESP Rate for the customer. Must appear as a monetary amount. For example, to charge 3.45 cents per kWh, you must format the segment as AMT*RJ*.0345	

January 9, 2002

Version 3.0

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	

January 9, 2002

Version 3.0

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	M ID 2/3
			Code qualifying the Reference Identification	
			LO Load Planning Number	
			Load profile	
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	

January 9, 2002

Version 3.0

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

January 9, 2002

Version 3.0

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

	Ref. Des.	Data Element	Name	X12 Attributes
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

January 9, 2002

Version 3.0

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 GPU territory for Rate Ready. It will not be used in Rockland Electric territory. Rockland Electric will receive the rate from the ESP in LIN loop AMT*RJ segment.
DE Use:	Same as PA Conectiv Note: Not Used until Conectiv implements Rate Ready
MD Use:	Same as PA
Example:	REF*RB*A29

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 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

January 9, 2002

Version 3.0

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

January 9, 2002

Version 3.0

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 or REF*MT*COMBO

Data Element Summary

Ref.	Data			<u>X12 Attributes</u>
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	MT	Meter Ticket Number
				Meter Type
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		
		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:		

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.
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January 9, 2002

Version 3.0

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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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.</u>	<u>Data</u>	<u>Name</u>	<u>X12 Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 4P	M ID 2/3
			Affiliation Number Meter Constant (Meter Multiplier) (Ending Reading – Beginning Reading) * Meter Multiplier = Billed Usage	
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

January 9, 2002

Version 3.0

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

January 9, 2002

Version 3.0

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 Note: Rockland is evaluating whether they can accommodate sending this field.
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

	Ref.	Data	Name	X12 Attributes
	Des.	Element		
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

January 9, 2002

Version 3.0

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*000000001

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	

January 9, 2002

Version 3.0

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, receiver
N1*SJ*ESP COMPANY*9*007909422ESP1**40	ESP Name, ESP DUNS information, submitter
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	Capacity Obligation/Load Responsibility
AMT*KZ*14.1	Transmission Obligation
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

January 9, 2002

Version 3.0

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, receiver
N1*SJ*ESP COMPANY*9*007909422ESP1**40	ESP Name, ESP DUNS information, submitter
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.

January 9, 2002

Version 3.0

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	Capacity Obligation/Load Responsibility
AMT*KZ*14.1	Transmission Obligation
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

January 9, 2002

Version 3.0

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
N1*SJ*ESP COMPANY*9*007909422ESP1**41	ESP Name and DUNS information
N1*8R*CUSTOMER NAME	Customer Name
LIN*REIN1999123100002*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
N1*SJ*ESP COMPANY*9*007909422ESP1**41	ESP Name and DUNS information
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