

**Pennsylvania
New Jersey
Delaware
Maryland**

Implementation Guideline

For

Electronic Data Interchange

TRANSACTION SET

814

Move

Request

Ver/Rel 004010

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	Summary of Changes
October 16, 2013 Version 0.1_DRAFT	<ul style="list-style-type: none"> Initial Draft version of the 814 Move transaction for Pennsylvania’s Seamless Move / Instant Connect working group.
October 24, 2013 Version 0.2_DRAFT	<p>Draft updated to reflect discussions from the working group.</p> <ul style="list-style-type: none"> Removed response portion of transaction
November 4, 2013 Version 0.3_DRAFT	<p>Draft updated to reflect discussions from 10/31 working group meeting</p> <ul style="list-style-type: none"> Determined REFBLT, REFPC, DTM150 and REFRB would be applicable as outlined in each respective gray box. Returned AMTDP to applicability
November 7, 2013 Version 1.0 DRAFT	<p>Updated Table of Contents, Data Dictionary, agreed upon data elements from 11/7 working group meeting, removed all redlines and saved off as PROPOSED version.</p>
August 31, 2015 Version 1.1 DRAFT	<p>Updated proposed version as follows...</p> <ul style="list-style-type: none"> Clarified N18R Customer Name Clarified REF11 EGS Account Number Clarified REF17 Summary Interval Indicator
October 1, 2015 Version 1.2 DRAFT	<p>Updated draft version as follows...</p> <ul style="list-style-type: none"> Cleaned up General & Pennsylvania Notes Section Updated N1*8R clarification
November 13, 2015 Version 1.0	<p>Finalized for Pennsylvania</p>
May 18, 2018 Version 1.1	<p>Incorporated Pennsylvania Change Control 144 (Add Citizens & Wellsboro support)</p>

	General Notes
Use	The Move Request can be used in the following situations: <ul style="list-style-type: none"> Customer Contacts LDC to Move (LDC sends Move request once criteria has been met.)
Tracking number on Request	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.
Initiated by LDC	This transaction can only be initiated by the LDC. The customer will need to contact the LDC to trigger the move process.
No ESP Response	Upon receipt of the EDI 814 Move from the LDC the ESP will not send a response transaction back to the LDC.
Information Provided	When the LDC sends the Move to the ESP, it will contain the new account number, service address, meter information, etc. as applicable in each segment's gray box.
One Account per 814	One customer account per 814.
Multiple LINs	For the Move transaction, there may only be one LIN per account per 814.
LDC Definitions:	The term LDC (Local Distribution Company) in this document refers to the utility. Each state may refer to the utility by a different acronym: <ul style="list-style-type: none"> EDC – Electric Distribution Company (Pennsylvania)
ESP Definitions:	The term ESP (Energy Service Provider) in this document refers to the supplier. Each state may refer to the supplier by a different acronym: <ul style="list-style-type: none"> EGS – Electric Generation Supplier (Pennsylvania)

	Pennsylvania Notes
Applicability	<ul style="list-style-type: none">As of 10/1/2015, the PAPUC ordered the use of the 814 Move by Duquesne Light, FirstEnergy, PECO and PPL.Supported by Citizens & Wellsboro

	New Jersey Notes
Applicability:	<ul style="list-style-type: none">This transaction set is not used in New Jersey

	Delaware Notes
Applicability:	<ul style="list-style-type: none">This transaction set is not used in Delaware

	Maryland Notes
Applicability:	<ul style="list-style-type: none">This transaction set is not used in 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.

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

Notes:	Recommended by UIG
PA Use:	Must be identical to account number as it appears on the customer's bill, excluding punctuation (spaces, dashes, etc.). Significant leading and trailing zeros must be included.
	Request: Required Accept Response: Required Reject Response: Required
NJ Use:	Same as PA
Example:	REF*12*2931839200

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

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

One or more examples.

Data Element Summary

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

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

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

This column shows the X12 attributes for each data element. Please refer to Data Dictionary for individual state rules.

M = Mandatory, O= Optional, X = Conditional

AN = Alphanumeric, N# = Decimal value, ID = Identification, R = Real

1/30 = Minimum 1, Maximum 30

814 General Request, Response or Confirmation X12 Structure

Functional Group ID=**GE**

Heading

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max. Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BGN	Beginning Segment	M	1		
			LOOP ID - N1			>1	
	040	N1	Name	O	1		n1
	060	N3	Address Information	O	2		
	070	N4	Geographic Location	O	1		
	080	PER	Administrative Communications Contact	O	>1		

Detail

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max. Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - LIN			>1	
	010	LIN	Item Identification	O	1		
	020	ASI	Action or Status Indicator	O	1		
	030	REF	Reference Identification	O	>1		
	040	DTM	Date/Time Reference	O	>1		
	060	AMT	Monetary Amount	O	>1		
			LOOP ID - NM1			>1	
	080	NM1	Individual or Organizational Name	O	1		
	130	REF	Reference Identification	O	>1		

Summary

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max. Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Must Use	150	SE	Transaction Set Trailer	M	1		

Transaction Set Notes:

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

Data Dictionary for 814 Move

<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	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	X(30)
3	System Date	Date that the data was processed by the sender's application system.	BGN03		9(8)
4	LDC Name	LDC's Name	N102	N1: N101 = 8S	X(60)
5	LDC Duns	LDC's DUNS Number or DUNS+4 Number	N104	N1: N101 = 8S N103 = 1 or 9 N106 = 40 or 41	X(13)
6	ESP Name	ESP's Name	N102	N1: N101 = SJ	X(60)
7	ESP Duns	ESP's DUNS Number or DUNS+4 Number	N104	N1: N101 = SJ N103 = 1 or 9 N106 = 40 or 41	X(13)
8	Customer Name	Customer Name as it appears on the Customer's Bill	N102	N1: N101 = 8R	X(35) Note: X(60) for MD
9	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)
10	Service Address	Customer Service Address	N301 & N302	N1: N101 = 8R	X(55)
11	City	Customer Service Address	N401	N1: N101 = 8R	X(30)
12	State	Customer Service Address	N402	N1: N101 = 8R	X(2)
13	Zip Code	Customer Service Address	N403	N1: N101 = 8R	X(9)
14	County	Customer Service County	N406	N101 = 8R N405 = CO	X(30)
15	Customer Contact Name	Customer Contact Name	PER02	PER01= IC	X(60)
16	Customer Telephone Number	Contact Telephone Number for the customer	PER04	N1: N101 = 8R PER01 = IC PER03 = TE	X(10)
17	Customer Billing Name	Name on Billing Address	N102	N1: N101 = BT	X(35) Note: X(60) for MD
18	Customer Billing Street Address	Customer Billing Address	N301 & N302	N1: N101 = BT	X(55)
19	Billing City	Customer Billing Address	N401	N1: N101 = BT	X(30)
20	Billing State	Customer Billing Address	N402	N1: N101 = BT	X(2)
21	Billing Zip Code	Customer Billing Address	N403	N1: N101 = BT	X(9)
22	Billing Country Code	Customer Billing Address	N404	N1: N101 = BT	X(3)

23	Billing Contact Name	Billing Contact Name	PER02	PER01= IC	X(60)
24	Billing Telephone #	Contact Telephone Number related to this billing address	PER04	N1: N101 = BT PER01 = IC PER03 = TE	X(10)
25	Third Party Name for copies of notices	Name for Third Party to receive copies of notices	N102	N1: N101 = PK	X(35)
26	Street Address	Address for Third Party to receive copies of notices	N301 & N302	N1: N101 = PK	X(55)
27	City	Address for Third Party to receive copies of notices	N401	N1: N101 = PK	X(30)
28	State	Address for Third Party to receive copies of notices	N402	N1: N101 = PK	X(2)
29	Zip Code	Address for Third Party to receive copies of notices	N403	N1: N101 = PK	X(9)
30	Country Code	Address for Third Party to receive copies of notices	N404	N1: N101 = PK	X(3)
31	Third Party Name Contact Name for Copies of Notices	Third Party Name Contact Name for Copies of Notices	PER02	PER01= IC	X(60)
32	Telephone Number	Contact for Third Party to receive copies of notices	PER04	N1: N101 = PK PER01 = IC PER03 = TE	X(10)
33	Third Party Name for copies of bills	Name for Third Party to receive copies of bills	N102	N1: N101 = 2C	X(35)
34	Street Address	Address for Third Party to receive copies of bills	N301 & N302	N1: N101 = 2C	X(55)
35	City	Address for Third Party to receive copies of bills	N401	N1: N101 = 2C	X(30)
36	State	Address for Third Party to receive copies of bills	N402	N1: N101 = 2C	X(2)
37	Zip Code	Address for Third Party to receive copies of bills	N403	N1: N101 = 2C	X(9)
38	Country Code	Address for Third Party to receive copies of bills	N404	N1: N101 = 2C	X(3)
39	Third Party Contact Name for copies of bills	Name for Third Party Contact to receive copies of bills	N102	N1: N101 = 2C	X(35)
40	Telephone Number	Contact for Third Party to receive copies of bills	PER04	N1: N101= 2C PER01 = IC PER03 = TE	X(10)
41	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)
42	Generation Services Indicator	Indicates a customer request to: CE - 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)
43	Action Code	Indicates that the transaction is a request,	ASI01= Request: 27	LIN: ASI02 = 025	X(2)

<i>Note that the following REF segments may appear in any order on the actual EDI transaction.</i>					
44	ESP Account Number	ESP Customer Account Number	REF02	LIN: REF01= 11	X(30)
45	LDC Account Number	New Location LDC Customer Account Number	REF02	LIN: REF01= 12	X(30)
46	Old Account Number	Previous Location LDC Customer Account Number	REF02	LIN: REF01= 45	X(30)
47	Payment Arrangement	Used to indicate whether customer has an active payment arrangement with the LDC.	REF02= Y or N	LIN: REF01= 4N	X(1)
48	LDC Billing Cycle	LDC Cycle on which the bill will be rendered	REF02	LIN: REF01= BF	X(4)
49	LDC Billing Cycle – special condition	Indicates LDC Bill Cycle has frequency other than monthly	REF03	LIN: REF01= BF	X(3)
50	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)
51	Billing Calculation Method	Indicates party to calculate bill. - LDC calculates bill (REF02=LDC) - Each calculate portion (REF02=DUAL)	REF02	LIN: REF01= PC	X(4)
52	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)
53	PJM LMP Bus	Point at which the customer is connected to the transmission grid	REF03	LIN: REF01= SPL	X(80)
54	Interval Reporting Indicator	Indicates whether interval data will be reported at the detail, summary, or meter level.	REF02= SUMMARY or DETAIL or METERDETAIL	LIN: REF01= 17	X(30)
55	Special Meter Configuration Code	Used to convey there's a special meter present on the account. For example, Net Metering	REF02	LIN: REF01 = KY	X(3)
56	Special Meter Configuration Information	PPLEU-used to report the max K1 (demand) the special meter supports	REF03	LIN: REF01 = KY	X(80)
57	Service Period Start	Next Meter Read date on which Energy is expected to flow to this customer for the designated ESP.	DTM02	LIN: DTM01 = 150	9(8)
<i>Note that the following AMT segments may appear in any order on the actual EDI transaction.</i>					

58	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)
59	Peak Load Capacity	Peak load contributions provided to PJM for Installed Capacity calculation (coincident with PJM's peak)	AMT02	LIN: AMT01= KC	9(9).99
60	Network Service Peak Load	Customer's peak load contribution provided to PJM for the transmission service calculation (coincident with LDC peak)	AMT02	LIN: AMT01= KZ	9(9).99
61	Meter Number	Number which identifies meter	Request: NM109= [meter number] or UNMETERED	NM101= MQ NM102= 3 NM108= 32	X(30)

Note that the following REF segments may appear in any order on the actual EDI transaction.

62	Loss Factor	Loss factor	REF02	NM1:REF01= LF	X(30)
63	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)
64	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)
65	LDC Rate Subclass Code	Used to provide further classification of a rate.	REF02	NM1: REF01= PR	X(30)
6667	ESP Rate Code	Rate code identified by LDC that reflects the ESP billing rate category	REF02	NM1: REF01= RB	X(30)
68	Service Voltage	Service voltage	REF02	NM1:REF01= SV	X(30)
69	LDC Meter Cycle	LDC Cycle on which the meter will be read	REF02	NM1: REF01= TZ	X(2)
70	Meter Type	Type of Meter	REF02	NM1: REF01= MT	X(5)
71	Meter Type Additional Information	Additional information for the meter type	REF03	NM1: REF01= MT	X(80)

The following three fields each require that the Meter Type be shown in REF03:

72	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
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73	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
74	Type of metering used for billing	Indicates the type of metering information that will be sent on the 867 transaction.	REF02= 41 (on peak) or 42 (off peak) 43 (intermediate) or 51 (totalizer)	NM1: REF01 = TU REF03 = Meter Type (See REF*MT)	X(2)

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

Comments:

PA Use:	Required
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Not Used
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	

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:	Not Used
DE Use:	Not Used
MD Use:	Not Used
Request Example:	BGN*13*199904011956531*19990401

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	BGN01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 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

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:	Required
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Not Used
Request Example:	N1*8S*LDC COMPANY*1*007909411**41 (as Sender)

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual 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. 41 Submitter Entity transmitting transaction set	O ID 2/3

Segment: **N1** Name (SJ=ESP Name)
Position: 040
Loop: N1
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.

PA Use:	Required
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Not Used
Request Example:	N1*SJ*ESP COMPANY*9*007909422ESP1**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 SJ Service Provider ESP	M ID 2/3
Must Use	N102	93	Name Free-form name ESP Company Name	X AN 1/60
Must Use	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	X ID 1/2
Must Use	N104	67	Identification Code Code identifying a party or other code ESP D-U-N-S Number or D-U-N-S + 4 Number	X AN 2/80
Must Use	N106	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual. Used in addition to the N103 and N104 to identify the transaction sender and receiver when more than two parties are identified by N1 loops. 40 Receiver Entity to accept transmission	O ID 2/3

Segment: **N1** Name (8R=Customer Name)
Position: 040
Loop: N1
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.

PA Use:	Required. The customer may have the ability to change the name of the account during the establishment of the new service location. This is the customer name information for the new service location.
NJ Use:	Not used
DE Use:	Not used
MD Use:	Not used
Request Examples:	N1*8R*CUSTOMER NAME*92*1210 N1*8R*CUSTOMER NAME

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual 8R Consumer Service Provider (CSP) Customer Used to identify the customer associated with the LDC service account	M ID 2/3
Must Use	N102	93	Name Free-form name Customer Name as it appears on the customer's bill	X AN 1/60
Conditional	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent Reference Number assigned by and meaningful to the customer. Note that this number is assigned to the LDC and may or may not be applicable to the ESP. Condition: The N103 and N104 are optional only on the Request transaction. This information is provided at the point of time in the enrollment or re-instatement; an 814 change will not be processed if this data changes.	X ID 1/2
Conditional	N104	67	Identification Code Code identifying a party or other code Reference Number assigned by and meaningful to the customer. Note that this number is assigned to the LDC and may or may not be applicable to the ESP. Condition: The N103 and N104 are optional only on the Request transaction. This information is provided at the point of time in the enrollment or re-instatement; an 814 change will not be processed if this data changes. This information may also appear on a Rate Ready 810.	X AN 2/80

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

PA Use:	Required for Customer Service Address
NJ Use:	Not used
DE Use:	Not used
MD Use:	Not used
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	

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:	Required for Customer Service Address
NJ Use:	Not used
DE Use:	Not used
MD Use:	Not used
Example:	N4*ANYTOWN*PA*18111**CO*LEHIGH N4*ANYTOWN*PA*181110001**CO*LEHIGH

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	N401	19	City Name Free-form text for city name	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. 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.	O AN 1/30

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

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

Semantic Notes:

Comments:

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

Data Element Summary

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

Segment: **N1** Name (BT=Billing Address)
Position: 040
Loop: N1
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.

PA Use:	Request:	Required for Billing Address if different than Service Address. If billing address is not available at the time of move initiation, the utility would send 814C at later date if the customer provides.
NJ Use:	Not used	
DE Use:	Not used	
MD Use:	Not used	
Example:	N1*BT*ACCOUNTS PAYABLE DIVISION	

Data Element Summary

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

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

PA Use:	Request:	Required for Billing Address if different than Service Address
NJ Use:	Not used	
DE Use:	Not used	
MD Use:	Not used	
Example:	N3*123 N MAIN ST*MS FLR13	

Data Element Summary

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

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

PA Use:	Request: Required for Billing Address if different than Service Address
NJ Use:	Not used
DE Use:	Not used
MD Use:	Not used
Examples:	N4*ANYTOWN*PA*18111 N4*ANYTOWN*PA*181110001*US

Data Element Summary

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

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

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

Semantic Notes:

Comments:

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

Data Element Summary

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

Segment: **N1** Name (PK=Party to Receive Copy of Notices)
Position: 040
Loop: N1
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.

PA Use:	Request: Optional for Party to Receive Copy of Notices (not bills)
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Not used
Example:	N1*PK*ANN SMITH

Data Element Summary

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

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

PA Use:	Request:	Optional for Party to Receive Copy of Notices (not bills)
NJ Use:	Not used	
DE Use:	Not used	
MD Use:	Not used	
Example:	N3*4251 S ELECTRIC ST*MS 25	

Data Element Summary

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

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

PA Use:	Request: Optional for Party to Receive Copy of Notices (not bills)
NJ Use:	Not used
DE Use:	Not used
MD Use:	Not used
Examples:	N4*ANYTOWN*PA*18111 N4*ANYTOWN*PA*181110001*US

Data Element Summary

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

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

Semantic Notes:

Comments:

PA Use:	Request:	Optional for Party to Receive Copy of Notices (not bills)
NJ Use:	Not used	
DE Use:	Not used	
MD Use:	Not used	
Examples:	PER*IC*ANN SMITH*TE*8005551212 PER*IC*ANN SMITH*TE*8005551212*FX*8005551111*EM*ANN@SERVICE.COM	

Data Element Summary

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

Segment: **N1** Name (2C=Party to Receive Copy of Bills)
Position: 040
Loop: N1
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.

PA Use:	Request: Optional for Party to Receive Copy of Bills
NJ Use:	Not used
DE Use:	Not used
MD Use:	Not used
Example:	N1*2C*THOMAS SMITH

Data Element Summary

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

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

PA Use:	Request:	Optional for Party to Receive Copy of Bills
NJ Use:	Not used	
DE Use:	Not used	
MD Use:	Not used	
Example:	N3*4251 S ELECTRIC ST*MS 25	

Data Element Summary

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

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

PA Use:	Request: Optional for Party to Receive Copy of Bills
NJ Use:	Not used
DE Use:	Not used
MD Use:	Not used
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

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
NJ Use:	Not used	
DE Use:	Not used	
MD Use:	Not used	
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

Segment: **LIN** Item Identification

Position: 010

Loop: LIN

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify basic item identification data

Syntax Notes:

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

Semantic Notes:

- 1 LIN01 is the line item identification

Comments:

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

PA Use:	Required
NJ Use:	Not used
DE Use:	Not used
MD Use:	Not used
Examples:	LIN*MOVE1999123108000001*SH*EL*SH*CE

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.	O AN 1/20
Must Use	LIN02	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested	M ID 2/2
Must Use	LIN03	234	Product/Service ID Identifying number for a product or service EL Electric Service Identifies the product	M AN 1/48
Must Use	LIN04	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested	M ID 2/2
Must Use	LIN05	234	Product/Service ID Identifying number for a product or service CE Generation Services Indicates this transaction is related to Generation Services.	M AN 1/48

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

Syntax Notes:

Semantic Notes:

Comments:

Notes:	Identifies the action to be taken or the status of a requested action for the service identified in the LIN segment.
PA Use:	Required
NJ Use:	Not used
DE Use:	Not used
MD Use:	Not used
Request Example:	ASI*27*025

Data Element Summary

	Ref.	Data	Name	X12 Attributes
	Des.	Element		
Must Use	ASI01	306	Action Code Code indicating type of action 27 Move Request	M ID 1/2
Must Use	ASI02	875	Maintenance Type Code Code identifying the specific type of item maintenance 025 Move Customer Move	M ID 3/3

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. This is the ESP Account Number from the customer's "old" service location. If the ESP wants to change the value upon receipt of the EDI 814 Move, they must submit EDI 814C to the LDC.
NJ Use:	Not used	
DE Use:	Not used	
MD Use:	Not used	
Example:	REF*11*2348400586	

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 11 Account Number ESP-assigned account number for end use customer.	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Segment: **REF** Reference Identification (12=LDC Account Number)
Position: 030
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

PA Use:	Must be identical to account number as it appears on the customer's bill, excluding punctuation (spaces, dashes, etc.). Significant leading and trailing zeros must be included. Request: Required
NJ Use:	Not used
DE Use:	Not used
MD Use:	Not used
Example:	REF*12*2931839200

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 New LDC assigned account number for end use customer at new location.	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Segment: **REF** Reference Identification (45=LDC Old Account Number)
Position: 030
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

PA Use:	Request:	Required
NJ Use:	Not used	
DE Use:	Not used	
MD Use:	Not used	
Example:	REF*45*1105687500	

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 45 Old Account Number LDC assigned account number for end use customer at location prior to move.	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Segment: **REF** Reference Identification (4N=Payment Arrangement)
Position: 030
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

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

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 4N Special Payment Reference Number Used to indicate that customer has made a payment arrangement.	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Y Customer has an active payment arrangement N Customer does not have an active payment arrangement	X AN 1/30

Segment: **REF** Reference Identification (BF=LDC Bill Cycle)
Position: 030
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

PA Use:	Request:	Required
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:	Not used	
DE Use:	Not used	
MD Use:	Not used	
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

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
NJ Use:	Not used	
DE Use:	Not used	
MD Use:	Not used	
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	X AN 1/30

Segment: **REF** Reference Identification (PC=Bill Calculator)
Position: 030
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

PA Use:	Request:	Required
NJ Use:	Not used	
DE Use:	Not used	
MD Use:	Not used	
Example:	REF*PC*LDC	

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification PC Production Code Identifies the party that is to calculate the charges on the bill.	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier When REF01 is PC, valid values for REF02 are: LDC - The LDC calculates the charges on the bill (Rate Ready) DUAL - Each party calculates its portion of the bill (Dual or Bill Ready)	X AN 1/30

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

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

Segment: **REF** Reference Identification (NR=LDC Budget Billing Status)
Position: 030
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification NR Progress Payment Number Used to convey LDC Budget Billing Status	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier When REF01 is NR, valid values for REF02 are: Y – LDC is Budget Billing LDC charges for this account. N – LDC is not Budget Billing LDC charges for this account.	X AN 1/30

Segment: **REF** Reference Identification (SPL=PJM LMP Bus)
Position: 030
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

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

Data Element Summary

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

Segment: **REF** Reference Identification (17=Summary Interval)
Position: 030
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

PA Use:	If the LDC supports the summary interval at the account level, the LDC will send the REF*17 segment as part of the reinstatement request. The value of the REF02 field for the REF*17 segment will either be "SUMMARY" or "DETAIL". Note: The REF*17 is being sent under the LIN05 code of "CE" as part of the move.		
	Request:	Conditional – always sent if the LDC supports setting of interval summary/detail at the account level, and this is an interval account. If the EGS’s prior option is able to be ported to the new location, the LDC would pass that option. If the EGS’s prior option is unable to be ported (different meter configuration, type, etc.) to the new location, the LDC would pass their default interval data option.	
NJ Use:	Not used		
DE Use:	Not used		
MD Use:	Not used		
Example:	REF*17*SUMMARY REF*17*DETAIL REF*17*METERDETAIL (PECO only)		

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. For PECO this will interpret as account-level detail. METERDETAIL – Metering party will send interval details for each meter on the account (PECO only)	X AN 1/30

Segment: **REF** Reference Identification (KY=Special Meter Configuration)
Position: 030
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

PA Use:	Required when special meter configuration is present on an account.
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Not Used
Example:	REF*KY* NSUN*0000026

Data Element Summary

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

Segment: **DTM** Date/Time Reference (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.
PA Use:	Request: Required
NJ Use:	Not used
DE Use:	Not used
MD Use:	Not used
Example:	DTM*150*19990115

Data Element Summary

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

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

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

Data Element Summary

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

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

Notes:	Zero values may be sent if the LDC is, in fact, stating that there is no contribution for this customer's account.
PA Use:	Request: Required
NJ Use:	Not used
DE Use:	Not used
MD Use:	Not used
Example:	AMT*KC*752

Data Element Summary

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

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

Notes:	Zero values may be sent if the LDC is, in fact, stating that there is no contribution for this customer's account.
PA Use:	Request: Required
NJ Use:	Not used
DE Use:	Not used
MD Use:	Not used
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	
			Network Service Peak Load: Customer's peak load contribution provided to PJM for the Transmission Service calculation (coincident with LDC peak).	
Must Use	AMT02	782	Monetary Amount Monetary amount Network Service Peak Load	M R 1/18

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

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

Data Element Summary

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

Segment: **REF** Reference Identification (LF=Loss Factor)
Position: 130
Loop: NM1
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

PA Use:	Request:	Required for First Energy Companies; Optional for others
NJ Use:	Not used	
DE Use:	Not used	
MD Use:	Not used	
Example:	REF*LF*2	

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification LF Load Planning Number Loss Factor	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Segment: **REF** Reference Identification (LO=Load Profile)
Position: 130
Loop: NM1
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

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

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification LO Load Planning Number Load profile	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Segment: **REF** Reference Identification (NH=LDC Rate Class)
Position: 130
Loop: NM1
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

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

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification NH Rate Card Number Identifies a LDC rate class or tariff	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Segment: **REF** Reference Identification (PR=LDC Rate Subclass)
Position: 130
Loop: NM1
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification PR Price Quote Number LDC Rate Subclass – Used to provide further classification of a rate.	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Segment: **REF** Reference Identification (RB=ESP Rate Code)
Position: 130
Loop: NM1
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

PA Use:	Rate codes are established between the LDC and ESP prior to Enrollment.	
	Request:	Required if the LDC is calculating the ESP charges (Rate Ready) This segment must also be sent when account has UNMETERED services available for generation service (Rate Ready).
NJ Use:	Not used	
DE Use:	Not used	
MD Use:	Not used	
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

Segment: **REF** Reference Identification (SV=Service Voltage)
Position: 130
Loop: NM1
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

PA Use:	Request:	Required for First Energy Companies; Optional for others
NJ Use:	Not used	
DE Use:	Not used	
MD Use:	Not used	
Example:	REF*SV*SECONDARY	

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification SV Service Charge Number Service Voltage	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier PRIMARY SECONDARY Actual service voltage transmission value (Ex: 34.5kV)	X AN 1/30

Segment: **REF** Reference Identification (TZ=Meter Cycle)
Position: 130
Loop: NM1
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

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

Semantic Notes:

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

Comments:

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification TZ Total Cycle Number LDC Meter Cycle. Cycle number when the meter will be read.	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Segment: **REF** Reference Identification (MT=Meter Type)
Position: 130
Loop: NM1
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

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

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 MT Meter Ticket Number Meter Type	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier When REF01 is MT, the meter type is expressed as a five-character field. The first two characters are the type of consumption, the last three characters are the metering interval., except for the combination meter that records more than one measurement and is noted as "COMBO". Valid values can be a combination of the following values:	X AN 1/30

Type of Consumption

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

Metering Interval

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

For Example:

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

Other Valid Codes

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

Optional	REF03	352	Description A free-form description to clarify the related data elements and their content PECO PA Use: When REF01 is MT, valid values for REF03 are: I – Interval data available M – Interval data <u>NOT</u> available	X AN 1/80
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Segment: **REF** Reference Identification (4P=Meter Multiplier)
Position: 130
Loop: NM1
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

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

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 4P Affiliation Number Meter Constant (Meter Multiplier) (Ending Reading – Beginning Reading) * Meter Multiplier = Billed Usage	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Must Use	REF03	352	Description A free-form description to clarify the related data elements and their content Meter Type (see REF*MT for valid codes) "COMBO" is not a valid code in this element.	X AN 1/80

Segment: **REF** Reference Identification (IX=Number of Dials/Digits)
Position: 130
Loop: NM1
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

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

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification IX Item Number Number of Dials on the Meter displayed as the number of dials to the left of the decimal, a decimal point, and the number of dials to the right of the decimal.	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Must Use	REF03	352	Description A free-form description to clarify the related data elements and their content Meter Type (see REF*MT for valid codes). "COMBO" is not a valid code in this element.	X AN 1/80

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

Segment: **REF** Reference Identification (TU=Type of Metering)
Position: 130
Loop: NM1
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

PA Use:	There will be one REF*TU segment for each Time Of Use reading (for each meter type for each meter) that will be provided on the 867.	
	Request:	Required for each meter type for each non-interval meter that is used for billing purposes. This segment is provided for UNMETERED services and reflects the type of usage that is reported on the 867.
NJ Use:	Not used	
DE Use:	Not used	
MD Use:	Not used	
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. Des.	Data Element	Name	X12 Attributes
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification TU Trial Location Code Used to indicate the type of metering information that will be sent on the 867 transaction.	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier 41 Off Peak 42 On Peak 43 Intermediate 51 Totalizer	X AN 1/30
Must Use	REF03	352	Description A free-form description to clarify the related data elements and their content Meter Type (see REF*MT for valid codes). "COMBO" is not a valid code for this element.	X AN 1/80

Segment: **SE** Transaction Set Trailer
Position: 150
Loop:
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Semantic Notes:

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

PA Use:	Required
NJ Use:	Not used
DE Use:	Not used
MD Use:	Not used
Example:	SE*28*00000001

Data Element Summary

	Ref.	Data		X12 Attributes
	Des.	Element	Name	
Must Use	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

814 Move Examples:

Example: Move Request

Rate Ready (for Bill Ready or Dual, the AMTDP and REFRB would not be present)

BGN*13*199904011956531*19990401	BGN segment indicating this is a Request transaction.
N1*8S*LDC COMPANY*1*007909411**41	LDC Name, LDC DUNS information, submitter
N1*SJ*ESP COMPANY*9*007909422ESP1**40	ESP Name, ESP DUNS information, receiver
N1*8R*CUSTOMER NAME*92*1210	Customer Name and reference number
N3*123 N MAIN ST*FLR 13	Service address
N4*ANYTOWN*PA*18111**CO*LEHIGH	City/State/Zip and County for Service Address.
PER*IC*MARY JONES*TE*8005559876	Customer Contact name and telephone number
N1*BT*ACCOUNTS PAYABLE DEPT	Bill to party
N3*100 WEST AVENUE	Bill to address
N4*ANYTOWN*PA*18111	Bill to City/State/Zip
PER*IC*KELLY WEST*TE*8005559876	Bill To Contact name and telephone number
N1*PK*FRANK SMITH	Party to Receive Copy Name
N3*459 AVENUE B	Party to Receive Copy Address
N4*ANYTOWN*PA*18111	Party to Receive Copy City/State/Zip
PER*IC*FRANK SMITH*TE*8005559876	Party to Receive Copy Name
N1*2C*CAROL WRIGHT	Co-Participant Name
N3*23948 MAIN STREET	Co-Participant Address
N4*ANYTOWN*PA*18111	Co-Participant City/State/Zip
PER*IC*CAROL WRIGHT*TE*8005559876	Co-Participant Name and telephone number
LIN*MOVE19991231002*SH*EL*SH*CE	Transaction reference number, and enrollment request for generation services
ASI*27*025	Customer Move
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number (New Location)
REF*45*999999999	LDC Account Number (Old Location)
REF*BF*18	LDC Billing Cycle
REF*BLT*LDC	LDC calculates the LDC and ESP charges
REF*PC*LDC	LDC calculates ESP charges
REF*SPL**PJM192478939901287748	Indicates PJM LMP Bus Number
DTM*150*19990425	Estimated Start Date
AMT*DP*1	Tax Exemption Percent (Rate Ready ONLY)
AMT*KC*12.8	Peak Load Capacity
AMT*KZ*14.1	Network Service Peak Load
NM1*MQ*3*****32*123857G	Meter Number
REF*LO*GS	LDC Load Profile
REF*NH*GS1	LDC Rate class
REF*PR*123	LDC Rate Subclass
REF*RB*0300	ESP Rate Code (Rate Ready ONLY)
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