

Virginia

**Implementation
Standard**

For

Electronic Data Interchange

TRANSACTION SET

814

**Enrollment
Request and Response
Ver/Rel 004010**

Summary of Changes

August 27, 2001 Version 2-1FINAL	Issue final version 2.1 for 1/1/2002 Open Access
February 20, 2002 Version 2-11 FINAL	Added AP to the VA Use greybox for REF*SPL
August 14, 2002 Version 2-12 FINAL	In Notes section bullet “Historical Usage Requests for Interval Data Accounts”, removed comment about AEP honoring requests only at the point of enrollment. For REF*SPL, changed VA Use for responses to “Required only for PJM participants”. Inserted REF*17 (Summary Interval) needed by AEP. For Data Dictionary, made necessary revisions to be in sync with IG.
December 1, 2002 Version 2.2 FINAL	Made Revisions to N4 (Customer Service Address) and REF segments for CSP Consolidated Billing.
January 16, 2003 Version 2.2.1	Added note for certain participating Electric Cooperatives.
February 24, 2003 Draft Version 2.2.2	Added note for BARC, CVEC, C-BEC, MEC, NNEC, SVEC, and SEC- LIN01=05 not supported; changed several NM1 data elements to ‘conditional’; changed AMT01=7N and AMT01=QY to ‘conditional’.
March 21, 2003 Version 2.3	Approved Draft Version 2.2.2

Notes

One 814 per Account	<ul style="list-style-type: none">• Each 814 can only be used for one customer account• For AEP, each 814 can only be used for one Service Delivery Identification Number (SDID). A customer account may have multiple SDIDs. SDID is used in place of LDC Customer Account Number
Multiple LINs	<ul style="list-style-type: none">• There may be multiple detail LIN loops for each customer account.• It is important that the sender order the LIN loops in the order they would like them processed for all primary services.• Refer to the LIN segment within this document for a better understanding of primary and secondary services.• The sender may opt to send one service per 814 instead of using multiple LIN segments.
Response per LIN	<ul style="list-style-type: none">• There must be one response LIN for each request LIN.• Note that DVP does not send 814HU response if the requested 867 is sent.• These responses may be created and sent at different times in different 814 transactions, but all LINs must be responded to within the time limits set by the VAEDT.
Unknown LIN05 codes	<ul style="list-style-type: none">• If an LDC receives a request for a code they do not support (or is not defined by these standards), the LDC will respond. They will reject the code with an SNP (Service Not Provided)
Secondary Service Request - LIN05=HU	<ul style="list-style-type: none">• BARC, CVEC, C-BEC, MEC, NNEC, SVEC, and SEC – requests (and responses) are made outside of EDI.
Rejection vs. Acceptance with Status Reason code	<ul style="list-style-type: none">• A Status Reason code is different than a Rejection Reason code in that it is used to give additional information to the receiving party (an FYI). For example, if a request for Historical Usage is sent and the transaction is valid, but historical usage is not available for that customer, the transaction is accepted and a status reason code is provided to explain that the historical usage would not be sent. Generally, if a transaction is rejected, the sender is expected to follow up and resubmit; whereas if a transaction is accepted with a status reason code, the sender is not expected to take any further action.
Historical Usage Requests for Interval Data Accounts	<ul style="list-style-type: none">• DVP, Conectiv, NOVEC, REC, BARC, CVEC, C-BEC, MEC, NNEC, SVEC, and SEC – requests are made outside of EDI.• AEP and AP – send 814HU to request summary level, send 814HI to request detail level, send 814HU and HI to request both levels.
CSP Account Numbers	<ul style="list-style-type: none">• The only time a LDC will update a CSP account number is from an 814E or 814C.
Offcycle Enrollments	<ul style="list-style-type: none">• VA LDC's do not support off cycle enrollment requests.
Un-metered Accounts	<ul style="list-style-type: none">• BARC, CVEC, C-BEC, MEC, NNEC, SVEC, and SEC - un-metered accounts are not eligible for CSP services.
VA Definitions	<ul style="list-style-type: none">• In Virginia the term LDC means Local Distribution Company and refers to the incumbent utility.• In Virginia the term CSP means Competitive Service Provider and refers to the entity that provides a competitive service.• An end use customer is a legal entity that receives electric or gas service at one or several service locations, each of which will have a customer account.

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
VA 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
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

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

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

814 General Request, Response or Confirmation

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	
Must Use	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	
Must Use	010	LIN	Item Identification	O	1		
Must Use	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		n2
	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, LDC, CSP(s), Customer, and meter owner. The NM1 is used to provide meter level information.

Data Dictionary for Generation Services (LIN05=CE)

<i>Generation Services (CE) 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 time.	BGN02		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 (BGN02).	BGN06		X(30)
5	LDC Name identifier	LDC Name identifier	N101 = 8S		X(2)
6	LDC Name	LDC Name	N102	N1: N101 = 8S	X(60)
7	LDC Duns identifier	Identifier to indicate DUNS or DUNS+4	N103 = 1 or 9		X(1)
8	LDC Duns	LDC DUNS Number or DUNS+4 Number	N104	N1: N101 = 8S N103 = 1 or 9 N106 = 40 or 41	X(13)
9	LDC Sender / Receiver indicator	Indicates whether LDC was sender or receiver	N106 = 40 or 41		X(2)
10	ESP Name code	Code to indicate ESP Name	N101 = SJ		X(2)
11	ESP Name	ESP's Name	N102	N1: N101 = SJ	X(60)
12	ESP Duns identifier	Identifier to indicate DUNS or DUNS+4	N103 = 1 or 9		X(1)
13	ESP Duns	ESP's DUNS Number or DUNS+4 Number	N104	N1: N101 = SJ N103 = 1 or 9 N106 = 40 or 41	X(13)
14	ESP Sender / Receiver indicator	Indicates whether ESP was sender or receiver	N106 = 40 or 41		X(2)
15	Customer Name code	Code to indicate Customer Name	N101 = 8R		X(2)
16	Customer Name	Customer Name as it appears on the Customer's Bill	N102	N1: N101 = 8R	X(35)
17	Customer Reference Number identifier	Customer Reference Number identifier	N103 = 92	N1:	X(2)
18	Customer Reference Number	A reference number assigned by and meaningful to the customer. An example would be Store number	N104	N1: N101 = 8R N103 = 92	X(30)
19	Service Address	Customer Service Address	N301 & N302	N1: N101 = 8R	X(55)
20	City	Customer Service Address	N401	N1: N101 = 8R	X(30)

21	State	Customer Service Address	N402	N1: N101 = 8R	X(2)
22	Zip Code	Customer Service Address	N403	N1: N101 = 8R	X(9)
23	Location Code	Service Address County	N405 = CO	N1: N101 = 8R	X(2)
24	Location Code Identifier	Service Address County Name	N406	N1: N101 = 8R	X(30)
25	Customer Contact identifier	Customer contact identifier Note that PER05 through 08 are available for sending more than one communication number.	PER01 = IC		X(2)
26	Customer Contact Name	Customer Contact Name	PER02	PER01= IC	X(60)
27	Communication number indicator	Communication number indicator	PER03 = TE, FX or EM		X(2)
28	Customer Communication Number	Contact Telephone Number (TE), Fax Number (FX) or Email Address (EM) for the customer	PER04	N1: N101 = 8R PER01 = IC PER03 = TE, FX or EM	X(80)
29	Customer Billing Address code	Code to indicate Customer Billing Address	N101 = BT		X(2)
30	Customer Billing Name	Name on Billing Address	N102	N1: N101 = BT	X(35)
31	Customer Billing Street Address	Customer Billing Address	N301 & N302	N1: N101 = BT	X(55)
32	Billing City	Customer Billing Address	N401	N1: N101 = BT	X(30)
33	Billing State	Customer Billing Address	N402	N1: N101 = BT	X(2)
34	Billing Zip Code	Customer Billing Address	N403	N1: N101 = BT	X(9)
35	Billing Country Code	Customer Billing Address	N404	N1: N101 = BT	X(3)
36	Billing Contact identifier	Billing contact identifier Note that PER05 through 08 are available for sending more than one communication number.	PER01 = IC		X(2)
37	Billing Contact Name	Billing Contact Name	PER02	PER01= IC	X(60)
38	Communication number indicator	Communication number indicator	PER03 = TE, FX or EM		X(2)
39	Billing Communication Number	Contact Telephone Number (TE), Fax Number (FX) or Email Address (EM) related to this billing address	PER04	N1: N101 = BT PER01 = IC PER03 = TE, FX or EM	X(80)
40	Third Party Name for copies of notices code	Code to indicate Third party Name for copies of notices	N101 = PK		X(2)
41	Third Party Name for copies of notices	Name for Third Party to receive copies of notices	N102	N1: N101 = PK	X(35)
42	Street Address	Address for Third Party to receive copies of notices	N301	N1: N101 = PK	X(55)
43	Street Address	Address for Third Party to receive copies of notices	N302	N1: N101 = PK	X(55)

44	City	Address for Third Party to receive copies of notices	N401	N1: N101 = PK	X(30)
45	State	Address for Third Party to receive copies of notices	N402	N1: N101 = PK	X(2)
46	Zip Code	Address for Third Party to receive copies of notices	N403	N1: N101 = PK	X(9)
47	Country Code	Address for Third Party to receive copies of notices	N404	N1: N101 = PK	X(3)
48	Customer Contact identifier	Customer contact identifier Note that PER05 through 08 are available for sending more than one communication number.	PER01 = IC		X(2)
49	Third Party Name for Contact for Copies of Notices	Third Party Name for Contact for Copies of Notices	PER02	PER01= IC	X(60)
50	Communication number indicator	Communication number indicator	PER03 = TE, FX or EM		X(2)
51	Communication Number	Contact Telephone Number (TE), Fax Number (FX) or Email Address (EM) related to this Third Party.	PER04	N1: N101 = PK PER01 = IC PER03 = TE, FX or EM	X(80)
52	Third Party Name for copies of bills code	Code to indicate Third party Name for copies of bills	N101 = 2C		X(2)
53	Third Party Name for copies of bills	Name for Third Party to receive copies of bills	N102	N1: N101 = 2C	X(35)
54	Street Address	Address for Third Party to receive copies of bills	N301	N1: N101 = 2C	X(55)
55	Street Address	Address for Third Party to receive copies of bills	N302	N1: N101 = 2C	X(55)
56	City	Address for Third Party to receive copies of bills	N401	N1: N101 = 2C	X(30)
57	State	Address for Third Party to receive copies of bills	N402	N1: N101 = 2C	X(2)
58	Zip Code	Address for Third Party to receive copies of bills	N403	N1: N101 = 2C	X(9)
59	Country Code	Address for Third Party to receive copies of bills	N404	N1: N101 = 2C	X(3)
60	Customer Contact identifier	Customer contact identifier Note that PER05 through 08 are available for sending more than one communication number.	PER01 = IC		X(2)
61	Third Party Contact Name for copies of bills	Name for Third Party Contact to receive copies of bills	PER02	N1: N101 = 2C	X(60)
62	Communication number indicator	Communication number indicator	PER03 = TE, FX or EM		X(2)
63	Communication Number	Contact Telephone Number (TE), Fax Number (FX) or Email Address (EM) related to this Third Party	PER04	N1: N101= 2C PER01 = IC PER03 = TE, FX or EM	X(80)
64	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)

65	Product / Service ID Qualifier	Qualifier indicating product / service	LIN02 = SH		X(2)
66	Product / Service ID	Product / Service ID	LIN03 = EL		X(2)
67	Product / Service ID Qualifier	Qualifier indicating product / service	LIN04 = SH		X(2)
68	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)
69	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: ASI02= 021	X(2)
70	Maintenance Type Code	Maintenance Type Code	ASI02 = 021	LIN:	X(3)
<i>Note that the following REF segments may appear in any order on the actual EDI transaction.</i>					
71	Rejection Code identifier	Rejection Code identifier	REF01 = 7G	LIN:	X(2)
72	Rejection Reason Code	Code explaining reason for rejection.	REF02	LIN: REF01= 7G	X(3)
73	Rejection Reason Text	Text explaining rejection.	REF03	LIN: REF01= 7G	X(80)
74	ESP Account number identifier	ESP Account number identifier	REF01 = 11	LIN:	X(2)
75	ESP Account Number	ESP Customer Account Number	REF02	LIN: REF01= 11	X(30)
76	LDC Account number identifier	LDC Account number identifier	REF01 = 12	LIN:	X(2)
77	LDC Account Number	LDC Customer Account Number	REF02	LIN: REF01= 12	X(30)
78	Service Delivery Identification (SDID) identifier	SDID identifier	REF01 = Q5	LIN:	X(2)
79	SDID	SDID – used by AEP instead of LDC Customer Account Number	REF03	LIN: REF01 = Q5	X(80)
80	Old LDC Account number identifier	Old LDC Account number identifier	REF01 = 45	LIN:	X(2)
81	Old Account Number	Previous LDC Customer Account Number	REF02	LIN: REF01= 45	X(30)
82	Payment arrangement identifier	Payment arrangement identifier	REF01 = 4N	LIN:	X(2)
83	Payment Arrangement	Used to indicate whether customer has an active payment arrangement with the LDC.	REF02= Y or N	LIN: REF01= 4N	X(1)
84	LDC Billing Cycle identifier	LDC Billing Cycle identifier	REF01 = BF	LIN:	X(2)
85	LDC Billing Cycle	LDC Cycle on which the bill will be rendered	REF02	LIN: REF01= BF	X(2)

86	LDC Billing Cycle – special condition	Indicates LDC Bill Cycle has frequency other than monthly	REF03	LIN: REF01= BF	X(3)
87	Billing Type identifier	Billing Type identifier	REF01 = BLT	LIN:	X(3)
88	Billing Type	Indicates type of billing <ul style="list-style-type: none"> • LDC consolidated Billing (REF02=LDC) • ESP consolidated Billing (REF02=ESP) • Dual bills (REF02=DUAL) 	REF02	LIN: REF01= BLT	X(4)
89	Billing Calculator identifier	Billing Calculator identifier	REF01 = PC	LIN:	X(2)
90	Billing Calculation Method	Indicates party to calculate bill. <ul style="list-style-type: none"> • LDC calculates bill (REF02=LDC) • - Each party calculates its portion of the bill (REF02=DUAL) 	REF02	LIN: REF01= PC	X(4)
91	LDC Budget Billing Status identifier	LDC Budget Billing Status identifier	REF01 = NR	LIN:	X(2)
92	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)
93	PJM LMP Bus identifier	PJM LMP Bus identifier	REF01 = SPL	LIN:	X(3)
94	PJM LMP Bus	Point at which the customer is connected to the transmission grid	REF03	LIN: REF01= SPL	X(80)
95	Customer Contract Effective Date/Time identifier	Customer Contract Effective Date/Time identifier	DTM01 = 129	LIN:	X(3)
96	Customer Contract Effective Date/Time	Date/Time ESP entered into contract with customer – used to determine which supplier is the last one in. CCYYMMDD HHMM ZZ	DTM02, DTM03 & DTM04	LIN: DTM01 = 129	See EDI Guide
97	Service Period Start identifier	Service Period Start identifier	DTM01 = 150	LIN:	X(3)
98	Service Period Start	Date on which energy is expected to flow to this customer for the designated ESP.	DTM02	LIN: DTM01 = 150	9(8)

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

99	Participating Interest identifier	Participating Interest identifier	AMT01 = 7N	LIN:	X(2)
100	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),9999 9
101	Eligible Load Percentage identifier	Eligible Load Percentage identifier	AMT01 = QY	LIN:	X(2)
102	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),9999 9

103	Percent Tax Exemption identifier	Percent Tax Exemption identifier	AMT01 = DP	LIN:	X(2)
104	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)
105	Capacity Obligation identifier	Capacity Obligation identifier	AMT01 = KC	LIN:	X(2)
106	Capacity Obligation	Peak load contributions provided to PJM for Installed Capacity calculation (coincident with PJM's peak)	AMT02	LIN: AMT01= KC	9(9).99
107	Transmission Obligation identifier	Transmission Obligation identifier	AMT01 = KZ	LIN:	X(2)
108	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
109	Number of Months identifier	Number of Months identifier	AMT01 = LD	LIN:	X(2)
110	Number of Months	Number of Months over which the Total kWh (AMT*TA) and/or Peak Demand (AMT*MA) are calculated.	AMT02	LIN: AMT01= LD	9(2)
111	Peak Demand identifier	Peak Demand identifier	AMT01 = MA	LIN:	X(2)
112	Peak Demand (12 mo)	Highest usage in the last 12 months (kW).	AMT02	LIN: AMT01= MA	9(11).999
113	Total kWh identifier	Total kWh identifier	AMT01 = TA		X(2)
114	Total kWh	Total kWh for the number of months specified in the AMT*LD segment (actual or estimated).	AMT02	LIN: AMT01= TA	9(15)
115	Load Mgt - AC Identifier	Load Mgt. – AC Identifier	AMT01 = 5J		X(2)
116	Load Mgt - AC	Indicates number of air conditioners on this account that are on load management program	AMT02	LIN: AMT01 = 5J	9(2)
117	Load Mgt - WH Identifier	Load Mgt - WH Identifier	AMT01= L0		X(2)
118	Load Mgt - WH	Indicates number of water heaters on this account that are on load management program		LIN: AMT01 = L0	9(2)
119	Entity Type Code	Entity Type Code	NM101= MQ	NM101= MQ NM102= 3 NM108= 32	X(2)
120	Entity Type Qualifier	Entity Type Qualifier	NM102= 3	NM101= MQ NM102= 3 NM108= 32	X(1)
121	Identification Code Qualifier	Identification Code Qualifier	NM108= 32	NM101= MQ NM102= 3 NM108= 32	X(2)

122	Meter Number	Number which identifies meter	Request: NM109= ALL Response: NM109= [meter number] or UNMETER ED	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>					
123	Profile Group identifier	Profile Group identifier	REF01= LO	NM1:	X(2)
124	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)
125	LDC Rate Code identifier	LDC Rate Code identifier	REF01= NH	NM1:	X(2)
126	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)
127	LDC Rate Subclass Code identifier	LDC Rate Subclass Code identifier	REF01= PR	NM1:	X(2)
128	LDC Rate Subclass Code	Used to provide further classification of a rate.	REF02	NM1: REF01= PR	X(30)
129	ESP Rate Code identifier	ESP Rate Code identifier	REF01= RB	NM1:	X(2)
130	ESP Rate Code	ESP rate code for customer	REF02	NM1: REF01= RB	X(30)
131	LDC Meter Cycle identifier	LDC Meter Cycle identifier	REF01= TZ	NM1:	X(2)
132	LDC Meter Cycle	LDC Cycle on which the meter will be read	REF02	NM1: REF01= TZ	X(2)
133	Meter Type identifier	Meter Type identifier	REF01= MT	NM1:	X(2)
134	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>					
135	Meter Constant/Meter Multiplier identifier	Meter Constant/Meter Multiplier identifier	REF01= 4P	NM1:	X(2)
136	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
137	Number of Dials / Digits identifier	Number of Dials / Digits identifier	REF01= IX	NM1:	X(2)
138	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
139	Type of metering identifier	Type of metering identifier	REF01= TU	NM1:	X(2)

140	Type of metering used for billing	Indicates the type of metering information that will be sent on the 867 transaction. Example: 41 = Off Peak	REF02	NM1: REF01 = TU REF03 = Meter Type (See REF*MT)	X(2)
141	Time Zone for Meter Identifier	Time Zone for Meter Identifier	REF01 = GE	NM1:	X(2)
142	Time Zone for Meter	Indicates time zone in which meter is located	REF02	NM1: REF01 = GE	X(2)

Data Dictionary for Historical Usage Requests (LIN05=HU)

<i>Request for Historical Usage (HU) 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 time.	BGN02		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 (BGN02).	BGN06		X(30)
5	LDC Name identifier	LDC Name identifier	N101 = 8S		X(2)
6	LDC Name	LDC Name	N102	N1: N101 = 8S	X(60)
7	LDC Duns identifier	Identifier to indicate DUNS or DUNS+4	N103 = 1 or 9		X(1)
8	LDC Duns	LDC DUNS Number or DUNS+4 Number	N104	N1: N101 = 8S N103 = 1 or 9 N106 = 40 or 41	X(13)
9	LDC Sender / Receiver indicator	Indicates whether LDC was sender or receiver	N106 = 40 or 41	N1:	X(2)
10	ESP Name code	Code to indicate ESP Name	N101 = SJ		X(2)
11	ESP Name	ESP's Name	N102	N1: N101 = SJ	X(60)
12	ESP Duns identifier	Identifier to indicate DUNS or DUNS+4	N103 = 1 or 9	N1:	X(1)
13	ESP Duns	ESP's DUNS Number or DUNS+4 Number	N104	N1: N101 = SJ N103 = 1 or 9 N106 = 40 or 41	X(13)
14	ESP Sender / Receiver indicator	Indicates whether ESP was sender or receiver	N106 = 40 or 41	N1:	X(2)
15	Customer Name code	Code to indicate Customer Name	N101 = 8R		X(2)
16	Customer Name	Customer Name as it appears on the Customer's Bill	N102	N1: N101 = 8R	X(35)
17	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)
18	Product / Service ID Qualifier	Qualifier indicating product / service	LIN02 = SH		X(2)
19	Product / Service ID	Product / Service ID	LIN03 = EL		X(2)
20	Product / Service ID Qualifier	Qualifier indicating product / service	LIN04 = SH		X(2)

21	Historical Usage	Indicates an ESP request to obtain historical usage information for this customer. Historical Usage will be returned on an EDI 867 transaction.	LIN05 = HU	LIN02 = SH LIN03 = EL LIN04 = SH	X(2)
22	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: ASI02= 029	X(2)
23	Maintenance Type Code	Maintenance Type Code	ASI02 = 029	LIN:	X(3)
24	Rejection Code identifier	Rejection Code identifier	REF01 = 7G	LIN:	X(2)
25	Rejection Reason Code	Code explaining reason for rejection.	REF02	LIN: REF01= 7G	X(3)
26	Rejection Reason Text	Text explaining rejection.	REF03	LIN: REF01= 7G	X(80)
27	Status Reason Code identifier	Status Reason Code identifier	REF01 = 1P	LIN:	X(2)
28	Status Reason Code	Code to provide status information for a secondary service.	REF02	LIN: REF01= 1P	X(3)
29	Status Reason Text	Text to provide status information.	REF03	LIN: REF01= 1P	X(80)
30	ESP Account number identifier	ESP Account number identifier	REF01 = 11	LIN:	X(2)
31	ESP Account Number	ESP Customer Account Number	REF02	LIN: REF01= 11	X(30)
32	LDC Account number identifier	LDC Account number identifier	REF01 = 12	LIN:	X(2)
33	LDC Account Number	LDC Customer Account Number	REF02	LIN: REF01= 12	X(30)
34	Service Delivery Identification (SDID) identifier	SDID identifier	REF01 = Q5	LIN:	X(2)
35	SDID	SDID – used by AEP instead of LDC Customer Account Number	REF03	LIN: REF01 = Q5	X(80)
36	Old LDC Account Number identifier	Old LDC Account Number identifier	REF01 = 45	LIN:	X(2)
37	Old Account Number	Previous LDC Customer Account Number	REF02	LIN: REF01= 45	X(30)
38	URL identifier	URL identifier	REF01 = URL	LIN:	X(3)
39	URL	LDC's URL (web address) for Historical Interval Data	REF03	LIN: REF01= URL	X(80)

Data Dictionary for Summary Interval (LIN05=SI)

<i>Request for Summary Interval Information (SI) 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 time.	BGN02		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 (BGN02).	BGN06		X(30)
5	LDC Name identifier	LDC Name identifier	N101 = 8S		X(2)
6	LDC Name	LDC Name	N102	N1: N101 = 8S	X(60)
7	LDC Duns identifier	Identifier to indicate DUNS or DUNS+4	N103 = 1 or 9		X(1)
8	LDC Duns	LDC DUNS Number or DUNS+4 Number	N104	N1: N101 = 8S N103 = 1 or 9 N106 = 40 or 41	X(13)
9	LDC Sender / Receiver indicator	Indicates whether LDC was sender or receiver	N106 = 40 or 41		X(2)
10	ESP Name code	Code to indicate ESP Name	N101 = SJ		X(2)
11	ESP Name	ESP's Name	N102	N1: N101 = SJ	X(60)
12	ESP Duns identifier	Identifier to indicate DUNS or DUNS+4	N103 = 1 or 9		X(1)
13	ESP Duns	ESP's DUNS Number or DUNS+4 Number	N104	N1: N101 = SJ N103 = 1 or 9 N106 = 40 or 41	X(13)
14	ESP Sender / Receiver indicator	Indicates whether ESP was sender or receiver	N106 = 40 or 41		X(2)
15	Customer Name code	Code to indicate Customer Name	N101 = 8R		X(2)
16	Customer Name	Customer Name as it appears on the Customer's Bill	N102	N1: N101 = 8R	X(35)
17	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)
18	Product / Service ID Qualifier	Qualifier indicating product / service	LIN02 = SH		X(2)
19	Product / Service ID	Product / Service ID	LIN03 = EL		X(2)
20	Product / Service ID Qualifier	Qualifier indicating product / service	LIN04 = SH		X(2)

21	Summary Interval Information	Indicates an ESP request to obtain interval data at the summary level only.	LIN05 = SI	LIN02 = SH LIN03 = EL LIN04 = SH	X(2)
22	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: ASI02= 021	X(2)
23	Maintenance Type Code	Maintenance Type Code	ASI02 = 021	LIN:	X(3)
24	Rejection Code identifier	Rejection Code identifier	REF01 = 7G	LIN:	X(2)
25	Rejection Reason Code	Code explaining reason for rejection.	REF02	LIN: REF01= 7G	X(3)
26	Rejection Reason Text	Text explaining rejection.	REF03	LIN: REF01= 7G	X(80)
27	Status Reason Code identifier	Status Reason Code identifier	REF01 = 1P	LIN:	X(2)
28	Status Reason Code	Code to provide status information for a secondary service.	REF02	LIN: REF01= 1P	X(3)
29	Status Reason Text	Text to provide status information.	REF03	LIN: REF01= 1P	X(80)
30	ESP Account number identifier	ESP Account number identifier	REF01 = 11	LIN:	X(2)
31	ESP Account Number	ESP Customer Account Number	REF02	LIN: REF01= 11	X(30)
32	LDC Account number identifier	LDC Account number identifier	REF01 = 12	LIN:	X(2)
33	LDC Account Number	LDC Customer Account Number	REF02	LIN: REF01= 12	X(30)
34	Service Delivery Identification (SDID) identifier	SDID identifier	REF01 = Q5	LIN:	X(2)
35	SDID	SDID – used by AEP instead of LDC Customer Account Number	REF03	LIN: REF01 = Q5	X(80)
36	Old LDC Account Number identifier	Old LDC Account Number identifier	REF01 = 45	LIN:	X(2)
37	Old Account Number	Previous LDC Customer Account Number	REF02	LIN: REF01= 45	X(30)
38	Interval Reporting Level identifier	Interval Reporting Level identifier	REF01 = 17	LIN:	X(2)
39	Interval Reporting Level	Indicates that interval data will be reported at the summary level.	REF02= SUMMARY	LIN: REF01= 17	X(30)

Data Dictionary for Special Meter Read (LIN05=SR)

Special Meter Read (SR) Request and Response Data Dictionary					
Appl Field	Field Name	Description	EDI Segment	Loop / Related EDI Qualifier	Data Type
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 time.	BGN02		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 (BGN02).	BGN06		X(30)
5	LDC Name identifier	LDC Name identifier	N101 = 8S		X(2)
6	LDC Name	LDC Name	N102	N1: N101 = 8S	X(60)
7	LDC Duns identifier	Identifier to indicate DUNS or DUNS+4	N103 = 1 or 9		X(1)
8	LDC Duns	LDC DUNS Number or DUNS+4 Number	N104	N1: N101 = 8S N103 = 1 or 9 N106 = 40 or 41	X(13)
9	LDC Sender / Receiver indicator	Indicates whether LDC was sender or receiver	N106 = 40 or 41		X(2)
10	ESP Name code	Code to indicate ESP Name	N101 = SJ		X(2)
11	ESP Name	ESP's Name	N102	N1: N101 = SJ	X(60)
12	ESP Duns identifier	Identifier to indicate DUNS or DUNS+4	N103 = 1 or 9		X(1)
13	ESP Duns	ESP's DUNS Number or DUNS+4 Number	N104	N1: N101 = SJ N103 = 1 or 9 N106 = 40 or 41	X(13)
14	ESP Sender / Receiver indicator	Indicates whether ESP was sender or receiver	N106 = 40 or 41		X(2)
15	Customer Name code	Code to indicate Customer Name	N101 = 8R		X(2)
16	Customer Name	Customer Name as it appears on the Customer's Bill	N102	N1: N101 = 8R	X(35)
17	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)
18	Product / Service ID Qualifier	Qualifier indicating product / service	LIN02 = SH		X(2)
19	Product / Service ID	Product / Service ID	LIN03 = EL		X(2)
20	Product / Service ID Qualifier	Qualifier indicating product / service	LIN04 = SH		X(2)
21	Special Read Request Indicator	Indicates an ESP request to obtain special meter reading.	LIN05 = SR	LIN02 = SH LIN03 = EL LIN04 = SH	X(2)

22	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: ASI02= 021	X(2)
23	Maintenance Type Code	Maintenance Type Code	ASI02 = 021	LIN:	X(3)
24	Rejection Code identifier	Rejection Code identifier	REF01 = 7G	LIN:	X(2)
25	Rejection Reason Code	Code explaining reason for rejection.	REF02	LIN: REF01= 7G	X(3)
26	Rejection Reason Text	Text explaining rejection.	REF03	LIN: REF01= 7G	X(80)
27	Status Reason Code identifier	Status Reason Code identifier	REF01 = 1P	LIN:	X(2)
28	Status Reason Code	Code to provide status information for a secondary service.	REF02	LIN: REF01= 1P	X(3)
29	Status Reason Text	Text to provide status information.	REF03	LIN: REF01= 1P	X(80)
30	ESP Account number identifier	ESP Account number identifier	REF01 = 11	LIN:	X(2)
31	ESP Account Number	ESP Customer Account Number	REF02	LIN: REF01= 11	X(30)
32	LDC Account number identifier	LDC Account number identifier	REF01 = 12	LIN:	X(2)
33	LDC Account Number	LDC Customer Account Number	REF02	LIN: REF01= 12	X(30)
34	Service Delivery Identification (SDID) identifier	SDID identifier	REF01 = Q5	LIN:	X(2)
35	SDID	SDID – used by AEP instead of LDC Customer Account Number	REF03	LIN: REF01 = Q5	X(80)
36	Old LDC Account Number identifier	Old LDC Account Number identifier	REF01 = 45	LIN:	X(2)
37	Old Account Number	Previous LDC Customer Account Number	REF02	LIN: REF01= 45	X(30)
38	Requested Read Date identifier	Requested Read Date identifier	DTM01 = MRR		X(3)
39	Requested Read Date	Date ESP is requesting special meter read to be made. CCYYMMDD (optionally HHMM Zone)	DTM02 / DTM03 / DTM04	LIN: DTM01 = MRR	9(8)

Data Dictionary for Meter Information (LIN05=MI)

<i>Request for Meter Information (MI) 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 time.	BGN02		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 (BGN02).	BGN06		X(30)
5	LDC Name identifier	LDC Name identifier	N101 = 8S		X(2)
6	LDC Name	LDC Name	N102	N1: N101 = 8S	X(60)
7	LDC Duns identifier	Identifier to indicate DUNS or DUNS+4	N103 = 1 or 9		X(1)
8	LDC Duns	LDC DUNS Number or DUNS+4 Number	N104	N1: N101 = 8S N103 = 1 or 9 N106 = 40 or 41	X(13)
9	LDC Sender / Receiver indicator	Indicates whether LDC was sender or receiver	N106 = 40 or 41		X(2)
10	ESP Name code	Code to indicate ESP Name	N101 = SJ		X(2)
11	ESP Name	ESP's Name	N102	N1: N101 = SJ	X(60)
12	ESP Duns identifier	Identifier to indicate DUNS or DUNS+4	N103 = 1 or 9		X(1)
13	ESP Duns	ESP's DUNS Number or DUNS+4 Number	N104	N1: N101 = SJ N103 = 1 or 9 N106 = 40 or 41	X(13)
14	ESP Sender / Receiver indicator	Indicates whether ESP was sender or receiver	N106 = 40 or 41		X(2)
15	Customer Name code	Code to indicate Customer Name	N101 = 8R		X(2)
16	Customer Name	Customer Name as it appears on the Customer's Bill	N102	N1: N101 = 8R	X(35)
17	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)
18	Product / Service ID Qualifier	Qualifier indicating product / service	LIN02 = SH		X(2)
19	Product / Service ID	Product / Service ID	LIN03 = EL		X(2)

20	Product / Service ID Qualifier	Qualifier indicating product / service	LIN04 = SH		X(2)
21	Meter Data Request Indicator	Indicates an ESP request to obtain meter information for this customer. The meter information will be returned on the transaction set 650.	LIN05 = MI	LIN02 = SH LIN03 = EL LIN04 = SH	X(2)
22	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: ASI02= 029	X(2)
23	Maintenance Type Code	Maintenance Type Code	ASI02 = 029	LIN:	X(3)
24	Rejection Code identifier	Rejection Code identifier	REF01 = 7G	LIN:	X(2)
25	Rejection Reason Code	Code explaining reason for rejection.	REF02	LIN: REF01= 7G	X(3)
26	Rejection Reason Text	Text explaining rejection.	REF03	LIN: REF01= 7G	X(80)
27	Status Reason Code identifier	Status Reason Code identifier	REF01 = 1P	LIN:	X(2)
28	Status Reason Code	Code to provide status information for a secondary service.	REF02	LIN: REF01= 1P	X(3)
29	Status Reason Text	Text to provide status information.	REF03	LIN: REF01= 1P	X(80)
30	ESP Account number identifier	ESP Account number identifier	REF01 = 11	LIN:	X(2)
31	ESP Account Number	ESP Customer Account Number	REF02	LIN: REF01= 11	X(30)
32	LDC Account number identifier	LDC Account number identifier	REF01 = 12	LIN:	X(2)
33	LDC Account Number	LDC Customer Account Number	REF02	LIN: REF01= 12	X(30)
34	Service Delivery Identification (SDID) identifier	SDID identifier	REF01 = Q5	LIN:	X(2)
35	SDID	SDID – used by AEP instead of LDC Customer Account Number	REF03	LIN: REF01 = Q5	X(80)
36	Old LDC Account Number identifier	Old LDC Account Number identifier	REF01 = 45	LIN:	X(2)
37	Old Account Number	Previous LDC Customer Account Number	REF02	LIN: REF01= 45	X(30)

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) 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:

VA Use:	Required
Example:	ST*814*000000001

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 814 General Request, Response or Confirmation	M ID 3/3
Must Use	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

Segment: **BGN** Beginning Segment
Position: 020
Loop:
Level: Heading:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a transaction set
Syntax Notes: 1 If BGN05 is present, then BGN04 is required.
Semantic Notes: 1 BGN02 is the transaction set reference number.
 2 BGN03 is the transaction set date.
 3 BGN04 is the transaction set time.
 4 BGN05 is the transaction set time qualifier.
 5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

Comments:

VA Use:	Required
Request Example:	BGN*13*199904011956531*19990401** (Note: BGN06 not used in the request.)
Response Example:	BGN*11*199904020830531*19990402***199904011956531 (Note: BGN06 is optional on the response.)

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>X12 Attributes</u>
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 should be unique over all 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 application system.	M DT 8/8
Optional	BGN06	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier If used, refers to the BGN02 identification number of the original Request. Not used on the request. Optional on the response.	O AN 1/30

Segment: **N1** Name
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.

VA Use:	Request: Required Response: Required
Request Example:	N1*8S*LDC COMPANY*1*007909411**40 (as Receiver)
Response 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) Used to identify the 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
Optional	N106	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual. Used in addition to the N103 and N104 to identify the transaction sender and receiver when more than two parties are identified by N1 loops. 40 Receiver Entity to accept transmission 41 Submitter Entity transmitting transaction set	O ID 2/3

Segment: **N1** Name
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.

VA Use:	Request: Required Response: Required
Request Example:	N1*SJ*ESP COMPANY*9*007909422ESP1**41 (as Sender)
Response 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 ½
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
Optional	N106	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual. Used in addition to the N103 and N104 to identify the transaction sender and receiver when more than two parties are identified by N1 loops. 40 Receiver Entity to accept transmission 41 Submitter Entity transmitting transaction set	O ID 2/3

Segment: N1 Name
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.

VA Use:	Request: Required
	Response: Required
Example:	N1*8R*JONES,JOHN,B*92*1210

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 found on the customer bill. For individual name – populate as last, first, middle, prefix, suffix with comma as delimiter. Allegheny and DVP will validate on first 4 characters of last name or company name, as found on the customer 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 Accept Response transaction. This information is provided at the point of time in the enrollment; an 814 change will not be processed if this data changes.	X ID ½
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 Accept Response transaction. This information is provided at the point of time in the enrollment; 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:

VA Use:	Request:	Not Used
	CE Accept Response:	Required for Customer Service Address
	All Other Responses:	Not Used
VA Use:	For a freeflow address, place entirely within N301-02, leaving N4 empty	
Example:	N3*123 N MAIN ST*MS FLR13	

Data Element Summary

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

VA Use:	Request:	Not Used
	CE Accept Response:	Required for Customer Service Address
	All Other Responses:	Not Used
Example:	N4*ANYTOWN*VA*18111	

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 Condition: N405 and N406 are required for CSP Consolidated Billing; otherwise, they are optional. CO County/Parish and State Service Address County / Parish	X ID ½
Conditional	N406	310	Location Identifier Code which identifies a specific location Service Address County / Parish Condition: N405 and N406 are required for CSP Consolidated Billing; otherwise, they are optional.	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 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:

VA Use:	Request:	Not Used
	CE Accept Response:	Optional for Service Address
	All Other Responses:	Not Used
Example:	PER*IC**TE*8005559876	

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
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.

VA Use:	Request:	Not Used
	CE Accept Response:	Required for Billing Address if different than Service Address
	All Other Responses:	Not Used
Example:	N1*BT*ACCOUNTS PAYABLE DIVISION	

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Must Use	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual BT Bill-to-Party	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:

VA Use:	Request:	Not Used
	CE Accept Response:	Required for Billing Address if different than Service Address
	All Other Responses:	Not Used
Example:	N3*123 N MAIN ST*MS FLR13	

Data Element Summary

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

VA Use:	Request:	Not Used
	CE Accept Response:	Required for Billing Address if different than Service Address
	All Other Responses:	Not Used
Example:	N4*ANYTOWN*VA*18111	

Data Element Summary

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

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

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

Semantic Notes:
Comments:

VA Use:	Request:	Not Used
	CE Accept Response:	Optional for Billing Address if different than Service Address.
	All Other Responses:	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
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.

VA Use:	Request:	Not Used
	CE Accept Response:	Optional for Party to Receive Copy of Notices (not bills)
	All Other Responses:	Not Used
Example:	N1*PK*ANN SMITH	

Data Element Summary

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

VA Use:	Request:	Not Used
	CE Accept Response:	Optional for Party to Receive Copy of Notices (not bills)
	All Other Responses:	Not Used
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

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.

VA Use:	Request:	Not Used
	CE Accept Response:	Optional for Party to Receive Copy of Notices (not bills)
	All Other Responses:	Not Used
Example:	N4*ANYTOWN*VA*18111	

Data Element Summary

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

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

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

Semantic Notes:
Comments:

VA Use:	Request:	Not Used
	CE Accept Response:	Optional for Party to Receive Copy of Notices (not bills)
	All Other Responses:	Not Used
Example:	PER*IC*ANN SMITH*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
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.

VA Use:	Request:	Not Used
	CE Accept Response:	Optional for Party to Receive Copy of Bills
	All Other Responses:	Not Used
Example:	N1*2C*THOMAS SMITH	

Data Element Summary

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

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

VA Use:	Request:	Not Used
	CE Accept Response:	Optional for Party to Receive Copy of Bills
	All Other Responses:	Not Used
Example:	N3*4251 S ELECTRIC ST*MS 25	

Data Element Summary

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

VA Use:	Request:	Not Used
	CE Accept Response:	Optional for Party to Receive Copy of Bills
	All Other Responses:	Not Used
Example:	N4*ANYTOWN*VA*18111	

Data Element Summary

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

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

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

Semantic Notes:
Comments:

VA Use:	Request:	Not Used
	CE Accept Response:	Optional for Party to Receive Copy of Bills
	All Other Responses:	Not Used
Example:	PER*IC*THOMAS SMITH*TE*8005552878	

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: **LIN** Item Identification
Position: 010
Loop: LIN
Level: Detail:
Usage: Must Use
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.
Semantic Notes: 1 LIN01 is the line item identification
Comments:

Notes:	Version 4010 restricts the use of LIN03 to identify the product (electric vs. gas) and LIN05 to identify the service being requested. For example, LIN*SH*EL*SH*CE \ indicates that the product is electric and 'generation services' is the service being requested. Multiple LIN's may be sent to request multiple services for one account. Other examples: LIN*SH*EL*SH*HU \ requests historical usage of electric service LIN*SH*GAS*SH*MI \ requests meter information on the gas service
VA Processing Order:	Only one service may be requested per LIN loop and it is important that the sender order the LIN loops in the order that they would like them processed for all primary services. For all LDC's, until we incorporate unbundled metering, it is only important that the Generation Services (CE) be sent prior to all secondary services.
Examples:	LIN*CE199912310800000001*SH*EL*SH*CE LIN*HU199912310800000002*SH*EL*SH*HU LIN*MI199912310800000003*SH*EL*SH*MI LIN*SW199912310800000004*SH*EL*SH*SW LIN*SR199912310800000005*SH*EL*SH*SR LIN*SI199912310800000006*SH*EL*SH*SI

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) within this transaction set. 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 Indicates a customer request to obtain electric service.	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	X ID 2/2

Primary Service:	<p>Primary Services include the following: Generation Services (CE)</p> <p>Primary services must be responded to with an Accept or a Reject at the LIN level. If the transaction <i>cannot</i> be processed in the application system (e.g. the enrollment fails due to missing or invalid data) the transaction must be Rejected (ASI01="U") and a Rejection Reason Code is provided in REF*7G.</p>
Secondary Service:	<p>Secondary Services include the following: Historical Usage (HU) – supported by all VA LDC’s except BARC, CVEC, C-BEC, MEC, NNEC, SVEC, and SEC. Historical Interval (HI) – for interval data accounts – see Notes section for LDC specific request mechanisms. Meter Information (MI) – VA EDI650 not yet developed Special Meter Read (SR) – supported only by REC and NOVEC Summary Data Only (SI) – for interval data accounts – supported only by AEP Offcycle Enrollment (SW) – not supported by VA LDC’s</p> <p>If service is provided, Secondary Services must be responded to with an Accept or a Reject at the LIN level. However, the “rejection” is treated differently than primary services.</p> <p>If the transaction cannot be processed in the application system for reasons such that the account number cannot be found, the transaction must be Rejected (ASI01="U") and a Rejection Reason Code is provided in REF*7G.</p> <p>If the transaction can be processed in the application system, but the service cannot be provided for any reason (e.g., Historical Usage Not Released) then the transaction must be Accepted (ASI01="WQ") and a Status Reason Code is provided in REF*1P.</p>
Why:	<p>The sender of the transaction will expect to react to a Rejection Response (ASI01="U"). If a transaction fails because the service is not provided or the information is unavailable, a resend of the transaction will not solve the issue.</p>

Must Use	LIN05	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
	“Primary Service”	CE	Generation Services		
			Indicates a customer request to obtain generation services from an ESP.		
	“Secondary Service”	HU	Historical Usage		
			Indicates an ESP request to obtain historical usage information for this customer. The usage data is returned on an EDI 867 in addition to the 814 Response		
			<ul style="list-style-type: none"> If this service cannot be provided, the associated REF*1P can be “HUU” 		
	“Secondary Service”	MI	Meter Information		
			Indicates an ESP request to obtain detailed information about the existing meter. The meter data is returned on an EDI 650 in addition to the 814 Response.		
			<ul style="list-style-type: none"> If this service cannot be provided, the associated REF*1P can be “MIU”, “NMI”, “UMA” DVP will reject 		
	“Secondary Service”	SR	Special Meter Read		

"Secondary Service"	SI	<p>Indicates an ESP request to obtain a special, off-cycle meter read for this customer. If the meter agent cannot provide this service, the associated REF*1P is sent with status reason code of W09.</p> <p>Summary Interval Data</p>
"Secondary Service"	HI	<ul style="list-style-type: none"> • Indicates a request to receive only summary data each month for an interval data account. • If this service cannot be provided, the associated REF*1P is "SNP". DVP will reject. <p>Historical Interval</p>
"Secondary Service"	SW	<p>Indicates an ESP request to obtain historical interval information for the customer. This information would be returned on an EDI 867. DVP will reject but provide REF*URL on the response.</p> <p>Special Read For Offcycle Switch</p> <p>Indicates an ESP request to enroll a customer "offcycle".</p>

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.	
VA Use:	Request:	Required
	Accept Response:	Required
	Reject Response:	Required
Request Example:	ASI*7*021	
Response Examples:	ASI*WQ*021	Accept Response
	ASI*U*021	Reject Response

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Must Use	ASI01	306	Action Code Code indicating type of action 7 Request U Reject WQ Accept	M ID 1/2
Must Use	ASI02	875	Maintenance Type Code Code identifying the specific type of item maintenance 021 Addition Used when requesting the following services: CE – Generation Services SR – Special Meter Read SI – Summary data only for interval accounts SW – Special Read for Offcycle Switch 029 Inquiry Use when requesting the following services: HU – Historical Usage MI – Meter Information HI – Historical Interval Data	M ID 3/3

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.
Semantic Notes:
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.
VA Implementation:	If an LDC receives a request for a service that it does not support, the LDC should reject it with a REF*7G*SNP*SERVICE NOT PROVIDED
Example:	REF*7G*A13*ADDITIONAL REASON TEXT HERE

Data Element Summary

Ref. Des.	Data Element	Name	X12 Attributes
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. "A13" (Other) must **only** be used when an existing error code does not convey the error correctly. Each time "A13" (Other) is used for a new purpose, an E-mail must be sent to the listserv by the party sending the code, to notify the VAEDT and the market participants about the text explanation for A13. This information will be compiled and new codes will be issued on a periodic basis.

Customer Enrollment (CE) 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		
		008	Account exists but is not active		
		021	Move Pending		
			Customer will be moving before the ESP would become active.		
		A13	Other		
			REF03 Required. Send email to vaedt@listserver.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.		
		A77	Name specified does not match account		
			Allegheny and DVP will match on the first four characters of the last name or company name as it appears on the customer's bill.		
		A91	Service is not offered at customer's location		
			Used to indicate that this is a gas only account, no electric service exists on the account.		
		ABN	Duplicate request received		
		ACI	Action Code (ASI01) Invalid		
		ANE	Account Not Eligible		
		ANL	Service provider not licensed to provide requested service		
		ANV	Account Not Volunteered		
		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 Customer Contract Effective Date (DTM*129). This would indicate an invalid date, such as 2/30/2000.		
		FRB	Incorrect Billing Option (REF*BLT) Requested		
		NFI	Not "First In"		
		NLI	Not Last In		
		UND	Cannot identify ESP		
		W05	Requested Rate not found or not in effect on the requested date (Rate Ready Only).		
		FRC	Incorrect Bill Calculation Method (REF*PC) Requested		
		MTI	Maintenance Type Code (ASI02) Invalid		
		PII	Participating Interest Invalid (Percent Participation)		
		RCF	Rate Class Full		
		TEI	Tax Exemption Percentage (AMT*DP) Invalid		
			This is used to reject an invalid percentage, such as greater than 100%. It will not be used if the ESP tax exemption percentage is different than the LDC tax exemption percentage.		
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.		

Historical Usage (HU or HI) 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		
			008		Account exists but is not active
			A13		Other REF03 Required. Send email to vaedt@listserver.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.
			A77		Name specified does not match account Allegheny will match on the first four characters of the last name or company name as it appears on the customer's bill.
			ABN		Duplicate request received
			ACI		Action Code (ASI01) Invalid
			ANL		Service provider not licensed to provide requested service
			API		Required information missing (REF03 Required)
			B33		Customer name is missing from the request
			UND		Cannot identify ESP
			SSR		Secondary Service Rejected Secondary Service not performed because Primary Service was rejected
			UMA		Unmetered Account
			SNP		Service Not Provided
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.		

Request for Meter Information (MI) 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		
		008	Account exists but is not active		
		A13	Other REF03 Required. Send email to vaedt@listserver.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.		
		A77	Name specified does not match account Allegheny Power Only – Allegheny will match on the first four characters of the last name or company name as it appears on the customer’s bill.		
		ABN	Duplicate request received		
		ACI	Action Code (ASI01) Invalid		
		ANL	Service provider not licensed to provide requested service		
		API	Required information missing (REF03 Required)		
		B33	Customer name is missing from the request		
		UND	Cannot identify ESP		
		SSR	Secondary Service Rejected Secondary Service not performed because Primary Service was rejected		
		SNP	Service Not Provided		
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.		

Special Meter Read (SR) 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		
		008	Account exists but is not active		
		A13	Other REF03 Required. Send email to vaedt@listserver.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.		
		A77	Name specified does not match account Allegheny Power Only – Allegheny will match on the first four characters of the last name or company name as it appears on the customer’s bill.		
		ABN	Duplicate request received		
		ACI	Action Code (ASI01) Invalid		
		ANL	Service provider not licensed to provide requested service		
		API	Required information missing (REF03 Required)		
		B33	Customer name is missing from the request		
		UND	Cannot identify ESP		
		SSR	Secondary Service Rejected Secondary Service not performed because Primary Service was rejected		
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 rejection reason code sent in REF02. Codes “A13” and “API” require text explanation in this element.		

Offcycle Enrollment (SW) 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 vaedt@listserver.eei.org each time A13 is used for a new purpose.
			SNP		Service Not Provided.
Optional	REF03	352	Description	X	AN 1/80
			A free-form description to clarify the related data elements and their content		

Summary Interval (SI) 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.
			A84		Invalid Relationship
					This will be used when the requestor is not the supplier of record
			SNP		Service Not Provided
			UMA		Unmetered Account or non-Interval Account
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. Code "A13" requires a text explanation in this element.		

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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used primarily to convey status reason codes in response to a Request. The status reason codes are conveyed in this segment rather than in the ASI03 to allow for multiple status reasons. A Status Reason code is different than a Rejection Reason code in that it is used to give additional information to the receiving party (an FYI). For example, if a request for Historical Usage is sent and the transaction is valid, but historical usage is not available for that customer, the transaction is accepted and a status reason code is provided to explain that the historical usage would not be sent. Generally, if a transaction is rejected, the sender is expected to follow up and resubmit; whereas if a transaction is accepted with a status reason code, the sender is not expected to take any further action.
VA Use:	Request: Not Used Accept Response: Required when status information must be conveyed. Reject Response: Not Used
Example:	REF*1P*A13*ADDITIONAL REASON TEXT HERE REF*1P*HUU*HISTORICAL USAGE UNAVAILABLE

Data Element Summary

Ref. Des.	Data Element	Name	X12 Attributes
Must Use REF01	128	Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		1P Accessorial Status Code	
		Used in the instance where the 814 Request is accepted, but additional status information must be provided; e.g. code W09, special off-cycle meter read cannot be performed.	

Rules for Status Reason Codes

The codes on the next several pages have been identified by the UIG to convey status reasons. Only the codes listed for each service are valid for that service.

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

Generation Services (CE) Status 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	
				See explanation in REF03	
			B30	Currently Enrolled	
				Used to indicate that the customer is already enrolled with the ESP that is requesting enrollment. The transaction is treated as an inquiry.	
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.		

Historical Usage (HU or HI) Status 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	
				See explanation in REF03	
			HUU	Historical Usage Unavailable	
			SNP	Service Not Provided	
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.		

Meter Information (MI) Status 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	
				See explanation in REF03	
			MIU	Meter Information Unavailable	
			NMI	No Meter Installed	
			SNP	Service Not Provided	
			UMA	Unmetered Account	
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.		

Special Meter Read (SR) Status 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	
				See explanation in REF03	
			A84	Invalid Relationship	
				This will be used when the requestor is not the supplier of record	
			SNP	Service Not Provided	
				REF03 may contain further information, such as "Not available via EDI, call xxx-xxx-xxxx to schedule"	
			UMA	Unmetered Account	
			W09	Special, Off-cycle meter reading cannot be performed.	
				Meter will be read on the normal, on-cycle read date.	
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.		

Summary Interval (SI) Status 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.	
			A84	Invalid Relationship	
				This will be used when the requestor is not the supplier of record	
			SNP	Service Not Provided	
			UMA	Unmetered Account or non-Interval Account	
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. Code "A13" requires a text explanation in this element.		

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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for account level information.	
VA Use:	Request:	Optional
	Accept Response:	Required if it was provided previously to LDC.
	Reject Response:	Required if it was provided previously to LDC.
Example:	REF*11*2348400586	

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 11 Account Number CSP-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
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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for account level information.	
VA Use:	Request:	Required for all LDCs but AEP. Not used by AEP.
	Accept Response:	Required for all LDC's but AEP. Not used by AEP.
	Reject Response:	Required if it was provided on request
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 LDC-assigned account number for end use customer.	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Segment: **REF** Reference Identification
Position: 030
Loop: LIN
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:

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

Semantic Notes:

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

Comments:
Notes: SDID numbers will only contain uppercase letters (A to Z) and Digits (0 - 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and leading and trailing zeros that are part of the SDID number must be present.
VA Use: Required if customer is in AEP service territory
Example: REF*Q5**987654

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification Q5 Property Control Number AEP assigned service delivery identification number	M ID 2/3
Must Use	REF03	352	Description A freeform description to clarify the related data element and their content. AEP assigned service delivery identification number	X AN 1/80

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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for account level information.	
VA Use:	Request:	Not Used
	Accept Response:	Required if the account number for this premise for this customer has changed (refolioed) in the last 60 days. Not used by AEP.
	Reject Response:	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's previous account number for this premise for this 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
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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for account level information.
VA Use:	Not Used
Example:	REF*4N*N

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 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
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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for account level information.	
VA Use:	Request:	Not Used
	CE Accept Response:	Required
	All other Accept Responses:	Not Used
Example:	REF*BF*15	

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification BF Billing Center Identification LDC Billing cycle. Cycle number when the billing will be rendered.	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Conditional	REF03	352	Reference Identification A free-form description to clarify the related data elements and their content. Condition: Used by AP when account is billed bimonthly – code BIM	X AN 1/80

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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for account level information.	
VA Use:	CE Request:	Required
	CE Accept Response:	Required
	CE Reject Response:	Return on the response if it was provided on the request
	All Other Requests:	Not Used
	All Other Responses:	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 their portion	X AN 1/30

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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for account level information.	
VA Use:	CE Request:	Required
	CE Accept Response:	Required
	CE Reject Response:	Required if it was provided on the request
	All Other Requests:	Not Used
	All Other Responses:	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 on behalf of the CSP DUAL - Each party calculates its portion of the bill NOTE: Under the current CSP Consolidated Billing Plan, the LDC and CSP calculate their respective charges.	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

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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for account level information.
VA Use:	Request: Not Used Response: Used only by AP, for Rate Ready customers. Not used by other LDC's.

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification NR Progress Payment Number	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier 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
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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for account level information.
VA Use:	Request: Not Used Response: Required only for PJM participants.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification SPL Standard Point Location Code (SPLC) Point at which the customer is connected to the transmission grid (PJM LMP Bus). This 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
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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for account level information.
VA Use:	Requests: Not Used SI Accept Responses: Used only by AEP. All Other Responses: Not Used

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 17 Client Reporting Category Used to convey that interval data will be provided at the summary level only for this 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 SUMMARY	X AN 1/30

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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for account level information.
VA Use:	Optional on HI Responses
Example:	REF*URL**www.xxx.com

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 URL Uniform Resource Locator URL address, the URL itself to be sent in REF03.	M ID 2/3
Must Use	REF03	352	Description A free-form description to clarify the related data elements and their content Actual URL Address.	X AN 1/80

Segment: **DTM** Date/Time Reference
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 DTM06 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes:
Comments:

VA Use:	CE Request:	Required
	CE Accept Response:	Required
	CE Reject Response:	Required if it was provided on the request
Example:	DTM*129*19990411*143000*ET	

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 129 Customer Contract Effective The date/time the customer agreed to obtain service from the Service Provider.	M ID 3/3
Must Use	DTM02	373	Date Date expressed as CCYYMMDD	X DT 8/8
Conditional	DTM03	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSDD, 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) HHMMSS format Condition: Supported by DVP, AEP and AP. Conectiv requires and supports CT, ET, MT and PT	X TM 4/8
Conditional	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 Condition: Must be sent if time is sent.	X ID 2/2
			CD Central Daylight Time	
			CS Central Standard Time	
			CT Central Time	
			ED Eastern Daylight Time	
			ES Eastern Standard Time	
			ET Eastern Time	
			GM Greenwich Mean Time	
			LT Local Time	
			MD Mountain Daylight Time	
			MS Mountain Standard Time	
			MT Mountain Time	
			PD Pacific Daylight Time	
			PS Pacific Standard Time	

PT	Pacific Time
TD	Atlantic Daylight time
TS	Atlantic Standard Time
TT	Atlantic Time
UT	Universal Time Coordinate

Segment: **DTM** Date/Time Reference
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 DTM06 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes:
Comments:

VA Use:	CE Request:	Not used
	CE Accept Response:	Required
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 Code specifying type of date or time, or both date and time 150 Service Period Start Date on which energy is expected to begin flowing to this customer from the ESP.	M ID 3/3
Must Use	DTM02	373	Date Date expressed as CCYYMMDD	M DT 8/8

Segment: **DTM** Date/Time Reference
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 DTM06 is required.
- 2 If DTM03 is present, then DTM04 is required.
- 3 If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes:

Comments:

VA Use:	SR Request:	Required (Check Read Request)
	SR Accept Response:	Required
	SR Reject Response:	Required
Example:	DTM*MRR*20000115*013000*ET	

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 Code specifying type of date or time, or both date and time MRR Special Meter Read Date	M ID 3/3
Must Use	DTM02	373	Date Date expressed as CCYYMMDD	M DT 8/8

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

VA Use:	Use precision to the fifth decimal place.	
VA Use:	CE Request: Must be value 1	Required
	CE Accept Response:	Required; not used by BARC, CVEC, C-BEC, MEC, NNEC, SVEC, and SEC
	CE Reject Response:	Required if it was provided on the request
Example:	AMT*7N*1	

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Conditional	AMT01	522	Amount Qualifier Code Code to qualify amount 7N Participating Interest This code is used to indicate the percentage of the eligible load that is supplied by the Energy Service Provider.	M ID 1/3
Must Use	AMT02	782	Monetary Amount Monetary amount For percentage values, the whole number "1" represents 100 percent..	M R 1/18

If ESP Requests ___ of a Customer's Eligible Load...	Then, AMT02 is...
100%	1

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

VA Use:	Request: CE Accept Response:	Not Used Required - Must be value of 1.; not used by BARC, CVEC, C-BEC, MEC, NNEC, SVEC, and SEC
	All Other Responses:	Not Used
Example:	AMT*QY*1	

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Conditional	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.	M R 1/18

If ESP Requests ___ of a Customer's Eligible Load...	Then, AMT02 is...
100%	1

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%)

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

VA Use:	Not Used.
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Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	AMT01	522	Amount Qualifier Code Code to qualify amount DP	M ID 1/3
			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 Monetary amount For percentage values, the whole number "1" represents 100 percent; decimal numbers less than "1" represent percentages from 1 percent to 99.9999 percent.	M R 1/18

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

VA Use:	Request: CE Accept Response: All other Responses:	Not Used Required only for PJM participants 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 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 Monetary amount Capacity Obligation/Load Responsibility	M R 1/18 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.

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

VA Use:	Request: CE Accept Response: All other Responses:	Not Used Required only for PJM participants Not used
Example:	AMT*KZ*725	

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	AMT01	522	Amount Qualifier Code Code to qualify amount KZ	M ID 1/3
			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
			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.	

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

VA Use:	Request:	Not Used
	CE Accept Response:	Required if there is history, otherwise not used.
	All Other Responses:	Not Used
Example:	AMT*LD*12	

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	AMT01	522	Amount Qualifier Code Code to qualify amount LD Incremental Number of Months over which the Total kWh (AMT*TA) and/or Peak Demand (AMT*MA) are calculated.	M ID 1/3
Must Use	AMT02	782	Monetary Amount Monetary amount Number of Months 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.	M R 1/18

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

VA Use:	Request:	Not Used
	CE Accept Response:	Required if the meter measures demand and there is history, otherwise not used.
	All Other Responses:	Not Used
Example:	AMT*MA*12345678.999	

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 MA Maximum Amount Peak Demand	M ID 1/3
Must Use	AMT02	782	Monetary Amount Monetary amount Peak Demand 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.	M R 1/18

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

VA Use:	Not Used
Example:	AMT*RJ*.0345

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Must Use	AMT01	522	Amount Qualifier Code Code to qualify amount RJ Rate Amount ESP Rate for the customer displayed as a monetary amount.	M ID 1/3
Must Use	AMT02	782	Monetary Amount Monetary amount 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	M R 1/18

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

VA Use:	Request:	Not Used
	CE Accept Response:	Required if there is history. Otherwise not used.
	All Other Responses:	Not Used
Example:	AMT*TA*12345678.912	

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 TA Total Annual Sales Total kWh	M ID 1/3
Must Use	AMT02	782	Monetary Amount Monetary amount Total kWh	M R 1/18

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.

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:

VA Use:	This field is used on an enrollment response 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.
	All Requests: Not Used CE Accept Response: Required if there are air conditioners on the account that are on load management program (Connectiv only) All other Accept Responses: Not Used All Reject Responses: Not Used
Examples:	AMT*5J*2 (Indicates there are two air conditioners on account in load management program)

Data Element Summary
Ref. Data

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

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

VA Use:	This field is used on an enrollment response 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.
	All Requests: Not Used CE Accept Response: Required if there are any water heaters on the account that are part of the load management program [only supported by Conectiv] All other Accept Responses: Not Used All Reject Responses: Not Used
Examples:	AMT*L0*1 (Indicates there is one water heater on account in load management program)

Data Element Summary

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

Segment: **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.
Semantic Notes: 1 NM102 qualifies NM103.
Comments:

Notes:	This segment is used to convey meter level information.	
VA Use:	CE Request:	Required only for LDC Consolidated Rate Ready and NM109 value will be ALL ; otherwise not used.
	All other Requests:	Not Used
	CE Accept Response:	Meter number required for each meter. Send UNMETERED if service is not metered. Not used by BARC, CVEC, C-BEC, MEC, NNEC, SVEC, and SEC
	All other Accept Responses:	Not Used
	Reject Response:	Echo back
Examples:	NM1*MQ*3*****32*1234568MG NM1*MQ*3*****32*UNMETERED NM1*MQ*3*****32*ALL	

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Conditional	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 Actual Meter Number UNMETERED – if service is not metered ALL – to indicate all meters on the account	X AN 2/80

Segment: **REF** Reference Identification
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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for meter level information.	
VA Use:	Request:	Not Used
	CE Accept Response:	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. If a load profile does not exist for this customer, this segment will not be sent.
	All Other Responses:	Not Used
Example:	REF*LO*GS	

Data Element Summary

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

Segment: **REF** Reference Identification
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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for meter level information.	
VA Use:	Request:	Not Used
	CE Accept Response:	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.
	All Other Responses:	Not Used
Example:	REF*NH*RS1	

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 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
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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for meter level information.	
VA Use:	Request:	Not used.
	CE Accept Response:	Optional: If LDC maintains, may be sent
	All Other Responses:	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
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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for meter level information.	
VA Implementation:	Rate codes are established between the LDC and ESP prior to Enrollment.	
VA Use:	CE Request:	Required if the LDC is calculating the ESP charges (Rate Ready)
	CE Accept Response:	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).
	CE Reject Response:	Return on response if it was provided on the request.
Example:	REF*RB*A29	

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Conditional	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification RB Rate code number CSP Rate Code for the customer	M ID 2/3
Conditional	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
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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for meter level information.	
VA Use:	Request:	Not Used
	CE Accept Response:	Required for each meter that is used for billing purposes. Optional for unmetered services.
	All Other Responses:	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
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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for meter level information.	
VA Implementation:	There will be only be one REF*MT segment for each NM1 loop. If there are multiple meter types on this meter, the code COMBO will be used. The specific meter type will be identified in the REF03 field in subsequent REF segments for this meter.	
VA Use:	Request:	Not Used
	CE Accept Response:	Required for each meter that is used for billing purposes. This segment is not provided for unmetered services.
	All Other Responses:	Not Used
Example:	REF*MT*KHMON or REF*MT*COMBO	

Data Element Summary

Ref. Des.	Data Element	Name	X12 Attributes
Must Use REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification MT Meter Type	M ID 2/3
Billing Data Types and Interval Frequencies			
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. "COMBO" is used for a meter that records more than one measurement. 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
KQ	Kilowatt Q 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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Segment: **REF** Reference Identification
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.
Semantic Notes:
Comments:

VA Implementation:	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).		
VA Use:	Request:	Not Used	
	CE Accept Response:	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. Not used by BARC, CVEC, C-BEC, MEC, NNEC, SVEC, and SEC	
	All Other Responses:	Not Used	
Example:	REF*4P*10*KHMON REF*4P*100*K1MON		

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Conditional	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 4P Rate Card 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 VA Implementation: Meter Type (see REF*MT for valid codes)	X AN 1/80

Segment: **REF** Reference Identification
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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for meter level information.	
VA Implementation:	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).	
VA Use:	Request:	Not Used
	CE Accept Response:	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. Not used by BARC, CVEC, C-BEC, MEC, NNEC, SVEC, and SEC
	All Other Responses:	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
Conditional	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification IX Rate Card 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 VA Implementation: Meter Type (see REF*MT for valid codes)	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
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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for meter level information.	
VA Implementation:	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.	
VA Use:	Request:	Not Used
	CE Accept Response:	Required for each meter type 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. Not used by BARC, CVEC, C-BEC, MEC, NNEC, SVEC, and SEC
	All Other Responses:	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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Conditional	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 Peak 51 Total 66 Shoulder Peak AA Summer On Peak AF Winter On Peak AC Summer Off Peak AH Winter Off Peak	X AN 1/30
Must Use	REF03	352	Description A free-form description to clarify the related data elements and their content VA Implementation: Meter Type (see REF* MT for valid codes)	X AN 1/80

Segment: **REF** Reference Identification
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.
Semantic Notes:
Comments:

Notes:	This iteration of the REF segment is used for meter level information.	
VA Implementation:	Time Zone for the meter. To be repeated for each meter on the account being enrolled. Used only by AEP.	
VA Use:	CE Request:	Not Used
	CE Accept Response:	Conditional – used only by AEP.
	CE Reject Response:	Not Used
Example:	REF*GE*ET	

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 GE Geographic Number Customer's time zone for meter.	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 CT Central Time CS Central Standard Time CD Central Daylight Time ET Eastern Time ES Eastern Standard Time ED Eastern Daylight Time GM Greenwich Mean Time LT Local Time UT Universal Time Coordinate	X AN 1/30

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

Syntax Notes:
Semantic Notes:

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

VA Use:	Required
Example:	SE*28*00000001

Data Element Summary

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

Example: Enrollment Request for Generation Services

Request is for generation services only - rate ready LDC consolidated billing. Multiple meters to be billed on one CSP rate.

BGN*13*199904011956531*19990401	BGN segment indicating this is a Request transaction
N1*8S*LDC COMPANY*1*007909411**40	LDC Name and DUNS information
N1*SJ*CSP COMPANY*9*007909422ESP1**41	CSP Name and DUNS information
N1*8R*ACME CORP	Customer Name
LIN*CE1999123100002*SH*EL*SH*CE	Transaction reference number, and enrollment request for generation services
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*BLT*LDC	Who sends bill: Enrollment is for LDC Consolidated Billing – Rate Ready
REF*PC*LDC	Who calculates bill: Enrollment is for LDC Consolidated Billing – Rate Ready
DTM*129*19990401*143000*ET	Customer agreed to obtain service with supplier on date/time specified (time and time code are conditional, based on LDC)
AMT*7N*1	Participating interest: Supplier is enrolling for 100% of eligible load
NM1*MQ*3*****32*ALL	Meters being enrolled
REF*RB*0300	Supplier rate code as defined on LDC system for Rate Ready Billing

Example: CE Enrollment Response – Enrollment Accepted

Request is for Generation services only. 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**41	LDC Name and DUNS information
N1*SJ*CSP COMPANY*9*007909422ESP1**40	CSP Name and DUNS information
N1*8R*ACME CORP*92*1210	Customer Name (Note: N103 and N104 are only supplied if stored in LDC system)
N3*123 N MAIN ST*FLR 13	Service address
N4*ANYTOWN*VA*18111	City/State/Zip for Service Address. Also County for service address where required to send
PER*IC**TE*8005559876	Customer Contact information
N1*BT*ACCOUNTS PAYABLE DEPT	Billing address (required if different than service address)
N3*100 WEST AVENUE	Billing address (required if different than service address)
N4*ANYTOWN*PA*18111	City/State/Zip for Billing Address (required if different than service address)
	“PK” N1 loop sent if there is a Third Party to receive copies of correspondence
	“2C” N1 loop sent if there is a Third Party to receive copies of bills
LIN*CE1999123100002*SH*EL*SH*CE	Transaction reference number, and enrollment request for generation services (This is echoed from request transaction)
ASI*WQ*021	Accept Enrollment request
REF*11*2348400586	CSP Account Number
REF*12*293839200	LDC Account Number
REF*BF*18	LDC Billing Cycle is number “18”
REF*BLT*LDC	Who sends bill: Enrollment is for LDC Consolidated Billing – Rate Ready
REF*PC*LDC	Who calculates bill: Enrollment is for LDC Consolidated Billing – Rate Ready
DTM*129*19990401*143000*ET	Customer agreed to obtain service with supplier on date/time specified (echoed)
DTM*150*19990425	Estimated Start date
AMT*7N*1	Participating interest: Supplier is enrolling for 100% of eligible load
AMT*QY*1	100% of customer load allocated to Supplier
AMT*LD*12	Indicates the number of months over which the total kWh and/or Peak Demand are calculated
AMT*MA*50	Peak Demand
AMT*TA*125500	Total kWh
NM1*MQ*3*****32*123857G	Meter 123857G – measures kWh and kW on a monthly basis. Both on peak and off peak are measured.
REF*LO*GS	LDC Load Profile
REF*NH*GS1	LDC Rate class
REF*PR*123	LDC Rate Subclass
REF*RB*0300	Supplier rate code as defined on LDC system for Rate Ready Billing (echoed from Request)
REF*TZ*18	LDC Meter Reading Cycle
REF*MT*COMBO	Indicates that this meter measures kWh on a monthly basis

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REF*4P*1*KHMON	Indicates that the meter constant on the kWh register is 1
REF*IX*6.1*KHMON	Indicates that there are 6 dials/digits to the left of the decimal, and one to the right of the decimal for the kWh register (Total 7 dials/digits)
REF*TU*41*KHMON	Indicates that the kWh register reports usage for off peak
REF*TU*42*KHMON	Indicates that the kWh register reports usage for on peak
REF*4P*1*K1MON	Indicates that the meter constant on the demand (kW) register is 1
REF*IX*5.0*K1MON	Indicates that there are 5 dials/digits to the left of the decimal, and zero to the right of the decimal for the demand (kW) register (Total 5 dials/digits)
REF*TU*41*K1MON	Indicates that the demand (kW) register reports usage for off peak
REF*TU*42*K1MON	Indicates that the demand (kW) register reports usage for on peak
NM1*MQ*3*****32*218737S	Meter 218737S – measures kWh on a monthly basis (totalized only)
REF*LO*GS	LDC Load Profile
REF*NH*GS1	LDC Rate class
REF*PR*123	LDC Rate Subclass
REF*RB*0300	Supplier rate code as defined on LDC system for Rate Ready Billing (echoed from Request)
REF*TZ*18	LDC Meter Reading Cycle
REF*MT*KHMON	Indicates that this meter measures kWh on a monthly basis
REF*4P*1*KHMON	Indicates that the meter constant on the kWh register is 1
REF*IX*5.0*KHMON	Indicates that there are 5 dials/digits to the left of the decimal, and zero to the right of the decimal for the kWh register
REF*TU*51*KHMON	Indicates that the kWh register reports usage on a totalized basis

Example: CE Enrollment Response – Enrollment Rejected

Request is for Generation services only. Enrollment was rejected due to an invalid LDC Account Number.

BGN*11*199904020830538*19990402***199904011956531	BGN segment indicating this is a Response transaction, and referencing the original Request transaction
N1*8S*LDC COMPANY*1*007909411**41	LDC Name and DUNS information
N1*SJ*CSP COMPANY*9*007909422ESP1**40	CSP Name and DUNS information
N1*8R*ACME CORP	
LIN*CE1999123100002*SH*EL*SH*CE	Transaction reference number, and enrollment request for generation services (This is echoed from request transaction)
ASI*U*021	Reject Enrollment request
REF*7G*A76*ACCOUNT NOT FOUND	Account not found on LDC system
REF*11*2348400586	CSP Account Number
REF*12*293839200	LDC Account Number
REF*BLT*LDC	Who sends bill: Enrollment is for LDC Consolidated Billing – Rate Ready
REF*PC*LDC	Who calculates bill: Enrollment is for LDC Consolidated Billing – Rate Ready
DTM*129*19990401*143000*ET	Customer agreed to obtain service with supplier on date/time specified (echoed)
AMT*7N*1	Participating interest: Supplier is enrolling for 100% of eligible load
NM1*MQ*3*****32*ALL	Meter 123857G – measures kWh and kW on a monthly basis. Both on peak and off peak are measured.
REF*RB*0300	Supplier rate code as defined on LDC system for Rate Ready Billing

Example: **Historical Usage Request**

This Request was for Historical Usage only.

BGN*13*199904011956544*19990401	BGN segment indicating this is a Request transaction
N1*8S*LDC COMPANY*1*007909411**40	LDC Name and DUNS information
N1*SJ*CSP COMPANY*9*007909422ESP1**41	CSP Name and DUNS information
N1*8R*ACME CORP	Customer Name
LIN*HU1999123100004*SH*EL*SH*HU	Transaction reference number, and request for Historical Usage
ASI*7*029	Request for inquiry
REF*11*2348400586	CSP Account Number
REF*12*293839200	LDC Account Number

Example: **Historical Usage Response – Accepted**

Request is for Historical Usage only. The Request was Accepted, the actual historical data will be sent on an 867 HU transaction.

BGN*11*199904011956544*19990401***199904011956544	BGN segment indicating this is a Request transaction
N1*8S*LDC COMPANY*1*007909411**41	LDC Name and DUNS information
N1*SJ*CSP COMPANY*9*007909422ESP1**40	CSP Name and DUNS information
N1*8R*ACME CORP	Customer Name
LIN*HU1999123100004*SH*EL*SH*HU	Transaction reference number, and request for Historical Usage
ASI*WQ*029	Request for inquiry was Accepted
REF*11*2348400586	CSP Account Number
REF*12*293839200	LDC Account Number

Example: **Historical Usage Response – Rejected**

Request is for Historical Usage only. The Request was Rejected because account is inactive.

BGN*11*199904011956544*19990401***199904011956544	BGN segment indicating this is a Request transaction
N1*8S*LDC COMPANY*1*007909411**41	LDC Name and DUNS information
N1*SJ*CSP COMPANY*9*007909422ESP1**40	CSP Name and DUNS information
N1*8R*ACME CORP	Customer Name
LIN*HU1999123100004*SH*EL*SH*HU	Transaction reference number, and request for Historical Usage
ASI*U*029	Request for inquiry was Rejected
REF*7G*008*ACCOUNT EXISTS BUT NOT ACTIVE	Account exists, but is inactive
REF*11*2348400586	CSP Account Number
REF*12*293839200	LDC Account Number

Example: Historical Usage Response – Historical Usage Unavailable

Request is for Historical Usage only. No Historical Usage is available. The Request is Accepted, but a status code should be sent indicating that historical usage is not available.

BGN*11*199904011956544*19990401***199904011956544	BGN segment indicating this is a Request transaction
N1*8S*LDC COMPANY*1*007909411**41	LDC Name and DUNS information
N1*SJ*CSP COMPANY*9*007909422ESP1**40	CSP Name and DUNS information
N1*8R*ACME CORP	Customer Name
LIN*HU1999123100004*SH*EL*SH*HU	Transaction reference number, and request for Historical Usage
ASI*WQ*029	Request for inquiry was Accepted
REF*1P*HUU*HISTORICAL USAGE UNAVAILABLE	Historical Usage unavailable
REF*11*2348400586	CSP Account Number
REF*12*293839200	LDC Account Number

Example: Meter Information Request

This Request was for Meter Information only.

BGN*13*199904011956588*19990401	BGN segment indicating this is a Request transaction
N1*8S*LDC COMPANY*1*007909411**40	LDC Name and DUNS information
N1*SJ*CSP COMPANY*9*007909422ESP1**41	CSP Name and DUNS information
N1*8R*DOE,JOHN,JEFFERSON	Customer Name
LIN*MI1999123100005*SH*EL*SH*MI	Transaction reference number, and request for Meter Information
ASI*7*029	Request for inquiry
REF*11*2348400586	CSP Account Number
REF*12*293839200	LDC Account Number

Example: Meter Information Response – Accepted

Request is for Meter Information only. The Request was Accepted, the actual meter data will be sent on an 650 transaction.

BGN*11*199904011956588*19990401***199904011956588	BGN segment indicating this is a Request transaction
N1*8S*LDC COMPANY*1*007909411**41	LDC Name and DUNS information
N1*SJ*CSP COMPANY*9*007909422ESP1**40	CSP Name and DUNS information
N1*8R*DOE,JOHN,JEFFERSON	Customer Name
LIN*MI1999123100005*SH*EL*SH*MI	Transaction reference number, and request for Meter Information
ASI*WQ*029	Request for inquiry was Accepted
REF*11*2348400586	CSP Account Number
REF*12*293839200	LDC Account Number

Example: Meter Information Response – Rejected

Request is for Meter Information only. The Request was Rejected because account is inactive.

BGN*11*199904011956588*19990401***199904011956588	BGN segment indicating this is a Request transaction
N1*8S*LDC COMPANY*1*007909411**41	LDC Name and DUNS information
N1*SJ*CSP COMPANY*9*007909422ESP1**40	CSP Name and DUNS information
N1*8R*DOE,JOHN,JEFFERSON	Customer Name
LIN*MI1999123100005*SH*EL*SH*MI	Transaction reference number, and request for Meter Information
ASI*U*029	Request for inquiry was Rejected
REF*7G*008*ACCOUNT EXISTS BUT IS NOT ACTIVE	Account exists, but is inactive
REF*11*2348400586	CSP Account Number
REF*12*293839200	LDC Account Number

Example: Meter Information Response – Meter Information Unavailable

Request is for Meter Information only. No Meter Information is available. The Request is Accepted, but a status code should be sent indicating that Meter Information is not available.

BGN*13*199904011956588*19990401	BGN segment indicating this is a Request transaction
NI*8S*LDC COMPANY*1*007909411**41	LDC Name and DUNS information
NI*SJ*CSP COMPANY*9*007909422ESP1**40	CSP Name and DUNS information
NI*8R*DOE,JOHN,JEFFERSON	Customer Name
LIN*MI1999123100005*SH*EL*SH*MI	Transaction reference number, and request for Meter Information
ASI*WQ*029	Request for inquiry was Accepted
REF*1P*MIU*METER INFORMATION UNAVAILABLE	Meter Information unavailable
REF*11*2348400586	CSP Account Number
REF*12*293839200	LDC Account Number

**Example: Enrollment Request for Generation Services, Historical Usage and Meter Info.
LDC Consol. Rate Ready Billing on multi-meter account with multiple CSP rates.**

BGN*13*199904011956531*19990401	BGN segment indicating this is a Request transaction
N1*8S*LDC COMPANY*1*007909411**40	LDC Name and DUNS information
N1*SJ*CSP COMPANY*9*007909422ESP1**41	CSP Name and DUNS information
N1*8R*ACME CORP	Customer Name
LIN*CE1999123100002*SH*EL*SH*CE	Transaction reference number, and enrollment request for generation services
ASI*7*021	Request for addition
REF*11*2348400586	CSP Account Number
REF*12*293839200	LDC Account Number
REF*BLT*LDC	Who sends bill: Enrollment is for LDC Consolidated Billing – Rate Ready
REF*PC*LDC	Who calculates bill: Enrollment is for LDC Consolidated Billing – Rate Ready
DTM*129*19990401	Customer agreed to obtain service with supplier on date specified
AMT*7N*1	Participating interest: Supplier is enrolling for 100% of eligible load
NM1*MQ*3*****32*123587G	Actual meter number
REF*RB*0300	Supplier rate code as defined on LDC system for Rate Ready Billing
NM1*MQ*3*****32*218737S	Actual meter number
REF*RB*0400	Supplier rate code as defined on LDC system for Rate Ready Billing
LIN*HU1999123100004*SH*EL*SH*HU	Transaction reference number, and request for Historical Usage
ASI*7*029	Request for inquiry
REF*11*2348400586	CSP Account Number
REF*12*293839200	LDC Account Number
LIN*MI1999123100005*SH*EL*SH*MI	Transaction reference number, and request for Meter Information
ASI*7*029	Request for inquiry
REF*11*2348400586	CSP Account Number
REF*12*293839200	LDC Account Number

**Example: Enrollment Response for Generation Services, Historical Usage and Meter Info
LDC Consol. Rate Ready Billing on multi-meter account with multiple ESP rates.**

Note: All services have been accepted.

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**41	LDC Name and DUNS information
N1*SJ*CSP COMPANY*9*007909422ESP1**40	CSP Name and DUNS information
N1*8R*ACME CORP*92*1210	Customer Name (Note: N103 and N104 are only supplied if stored in LDC system)
N3*123 N MAIN ST*FLR 13	Service address
N4*ANYTOWN*VA*18111	City/State/Zip for Service Address.
PER*IC**TE*8005559876	Customer Contact information
N1*BT*ACCOUNTS PAYABLE DEPT	Billing address (required if different than service address)
N3*100 WEST AVENUE	Billing address (required if different than service address)
N4*ANYTOWN*VA*18111	City/State/Zip for Billing Address (required if different than service address)
	“ PK ” N1 loop sent if there is a Third Party to receive copies of correspondence
	“ 2C ” N1 loop sent if there is a Third Party to receive copies of bills
LIN*CE1999123100002*SH*EL*SH*CE	Transaction reference number, and enrollment request for generation services (This is echoed from request transaction)
ASI*WQ*021	Accept Enrollment request
REF*11*2348400586	CSP Account Number
REF*12*293839200	LDC Account Number
REF*BF*18	LDC Billing Cycle is number “18”
REF*BLT*LDC	Who sends bill: Enrollment is for LDC Consolidated Billing – Rate Ready
REF*PC*LDC	Who calculates bill: Enrollment is for LDC Consolidated Billing – Rate Ready
DTM*129*19990401	Customer agreed to obtain service with supplier on date specified (echoed)
DTM*150*19990425	Estimated Start date
AMT*7N*1	Participating interest: Supplier is enrolling for 100% of eligible load
AMT*QY*1	100% of customer load allocated to Supplier
AMT*LD*12	Indicates the number of months over which the total kWh and/or Peak Demand are calculated
AMT*MA*50	Peak Demand
AMT*TA*125500	Total kWh
NM1*MQ*3*****32*123857G	Meter 123857G – measures kWh and kW on a monthly basis. Both on peak and off peak are measured.
REF*LO*GS	LDC Load Profile
REF*NH*GS1	LDC Rate class
REF*PR*123	LDC Rate Subclass
REF*RB*0300	CSP rate code by LDC system for rate ready billing
REF*TZ*18	LDC Meter Reading Cycle

REF*MT*COMBO	Indicates that this meter measures kWh on a monthly basis
REF*4P*1*KHMON	Indicates that the meter constant on the kWh register is 1
REF*IX*6.1*KHMON	Indicates that there are 6 dials/digits to the left of the decimal, and one to the right of the decimal for the kWh register (Total 7 dials/digits)
REF*TU*41*KHMON	Indicates that the kWh register reports usage for off peak
REF*TU*42*KHMON	Indicates that the kWh register reports usage for on peak
REF*4P*1*K1MON	Indicates that the meter constant on the demand (kW) register is 1
REF*IX*5.0*K1MON	Indicates that there are 5 dials/digits to the left of the decimal, and zero to the right of the decimal for the demand (kW) register (Total 5 dials/digits)
REF*TU*41*K1MON	Indicates that the demand (kW) register reports usage for off peak
REF*TU*42*K1MON	Indicates that the demand (kW) register reports usage for on peak
NM1*MQ*3*****32*21873S	Meter 21873S – measures kWh on a monthly basis (totalized only)
REF*LO*GS	LDC Load Profile
REF*NH*GS1	LDC Rate class
REF*PR*123	LDC Rate Subclass
REF*RB*0400	CSP rate code used by LDC system for Rate Ready Billing
REF*TZ*18	LDC Meter Reading Cycle
REF*MT*KHMON	Indicates that this meter measures kWh on a monthly basis
REF*4P*1*KHMON	Indicates that the meter constant on the kWh register is 1
REF*IX*5.0*KHMON	Indicates that there are 5 dials/digits to the left of the decimal, and zero to the right of the decimal for the kWh register
REF*TU*51*KHMON	Indicates that the kWh register reports usage on a totalized basis
LIN*HU1999123100004*SH*EL*SH*HU	Transaction reference number, and request for Historical Usage
ASI*WQ*029	Request for inquiry was Accepted
REF*11*2348400586	CSP Account Number
REF*12*293839200	LDC Account Number
LIN*MI1999123100005*SH*EL*SH*MI	Transaction reference number, and request for Meter Information
ASI*WQ*029	Request for inquiry was Accepted
REF*1P*MIU*METER INFORMATION UNAVAILABLE	Meter Information unavailable
REF*11*2348400586	CSP Account Number
REF*12*293839200	LDC Account Number