Pennsylvania
New Jersey
Delaware
Maryland

Implementation Guideline

For

Electronic Data Interchange

TRANSACTION SET

814

Reinstatement

Request and Response
Ver/Rel 004010

Table of Contents

Summary of Changes

June 12, 1999 Version 1.0	• Added clarification that Rockland Electric's system maintains the duplicate bill and notice to third party. • Added information about an LDC informing the ESP how the LDC will transmit interval data; at the summary level via an 867IU (if this was supported by the LDC at the account level and previously requested by the ESP), or at the detail level (867IU). If the account is not an interval account, this segment (REF*17) is not sent. **Note:** This option may not be offered at the account level by all LDCs – some LDCs may only offer it for all customers of an ESP. Transaction is considered FINAL in Pennsylvania. Please note that the codes used for request summary information for an interval account still need to be approved by UIG. There is a small chance the 'value' used may change, but the method will not and therefore, it should not impact programming efforts.
June 29, 1999 Version 2.0	• Issued as FINAL for New Jersey. • Changed "EGS" to "ESP" and "EDC" to "LDC" throughout the guideline. Removed "NJ Definitions" and replaced it with "LDC Definitions" and "ESP Definitions" in the Notes section. • Changed LIN01 to say that the tracking number must be unique over all time. • Corrected LIN03 to "Identifies the product" instead of "Indicates a customer request to obtain Electric Service" • Corrected spelling errors and formatting. • Added "How to use the implementation guideline" page. In addition, changed all headers to the true X12 definition… correcting some mistakes that were missed in 4010. Also corrected the Table on Page 4 to reflect X12 definitions and added the words "X12 Structure" to the title on that page. • Added LIN Notes from Enrollment • Added examples (Zip+4 on N4, FX & EM on PER, etc.) • Updated rules for rejection reason codes. • Combined "PA Implementation" with "PA Use" • Changed REF*MT - "This segment must also be sent when account has UNMETERED services available for generation service For UNMETERED services, the segment will typically be REF*MT*KHMON." to "This segment will **not** be provided in the NM1 loop for UNMETERED services." • Changed REF*TU text to: "This is provided for UNMETERED services and reflects the type of usage that is reported on the 867". • Changed Note from "One 814 per Account" to "One Account per 814". • Removed the following note from all QTY02 elements: " Note that a more appropriate segment would be the QTY (quantity), however until we can petition X12 to add a QTY segment to the 814, we must use the AMT segment"
July 2, 1999 Version 2.1	Re-released as a result of changes to the data dictionary.
July 14, 1999 Version 2.2	Change Control Process Change #001: • Corrected On/Off Peak in REF*TU and examples. The codes 41 and 42 were reversed. • Corrected X12 code description for REF*IX to "Item Number"
October 1, 1999 DRAFT Version 2.2b	• Added Delaware (Delmarva) as tentative use • Allowed DTM03/04 on DTM*007 to be optional • Clarified use of "Combo" and also not sending "COMBO" in REF03 for meter attributes • Clarified sending of load profile • Corrected some X12 descriptions • Clarified sending of Capacity (AMT*KC) and Transmission information (AMT*KZ) • Moved notes from Data Dictionary to Implementation Guide • Clarified sending of REF*17 for PA.

November 4, 1999 Version 2.3	This is a FINAL version for Pennsylvania and New Jersey
November 1999 Draft version 2.3MD1	• Add Maryland use to document – the changes were added to the version 2.3 of the regional standards • Added Data Dictionary • Added Table of Contents Maryland Open Items - AMT*DP – need ability to indicate what taxes the tax exemption percent applies to - Need ability to indicate load cycling device - Need ability to indicate customer is on special billing cycle (every other month) - APS - Several other fields specific utilities were looking into
December 23, 1999 Version 2.3MD2	• Modified Data Dictionary Customer Name and Billing Name length to allow for 60 for Maryland • Clarified APS use of N1*2C (Party to Receive Copy of Bills) • Clarified use of REF*NR for Maryland utilities • Added 4 new AMT segments for the Maryland taxes (AAO-Local/County tax, BAK-Franchise tax, F7-State Sales Tax, N8-Environmental tax) • Added 2 new AMT segments for Load Management program (L0-Water Heater, 5J-Air Conditioners)
February 24, 2000 Version 2.3MD3	• Clarified County field for N1*8R for Maryland • Added City tax for MD • Clarified use of Old Account Number (REF*45)
March 31, 2000 Version 2.3MD4	This document is finalized for MD
March 31, 2000 Version 2.3MD5	Corrected LIN examples from LIN*SH to LIN*1*SH
May 14, 2000 Version 2.4	• Incorporate PA Change Request X022 – Add clarification to Bill Cycle (REF*BF) as it relates to summary billing • Incorporate MD Change Control M001 – Several tax exemption segments had been added for MD use. After further review, it was determined they are not needed to support generation charges. As MD was only state using these segments, the segments will be removed from the document. They are AMT*C (City Tax), AMT*BAK (Franchise Tax), AMT*AAO (County/Local Tax) and the AMT*N8 (Environmental Tax) segments. • This document is a new finalized version of PA and MD. NJ is still using Version 2.3.
August 11, 2000 Version 2.4a	• REF*BF – modify NJ Use to reflect what use is. Note that had been added for PA was only addressed for PA. Indicate DE Delmarva and MD as same as NJ. • Indicate PSEG does not provide Bill Address information (N1*BT). • Change LIN*1 to LIN*23451 to minimize confusion with people thinking this is a counter within the transaction. • Add clarification to PSEG sending of City / State in N4 segment in N1*8R loop
September 10, 2000 Version 2.5	This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware (Delmarva only).
October 19, 2001 Version 2.5rev01	• Incorporate Delaware Electric Coop (DEC) information for Delaware • Incorporate PA Change Control 029 – ESP Account number should exclude punctuation, and must include significant leading and trailing zeros. • Correct Data Element number (352) for REF03 in REF*BF and REF*SPL segments
December 13, 2001 Version 2.5rev02	Incorporate PA Change Control 038 - indicate AMT*7N and AMT*QY will always be 100% for PA. Also, change PP&L to PPL EU.
January 9, 2002 Version 3.0	This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware.
April 12, 2005 Version 3.01PA	▪ Incorporate PA Change Control 042 - Modify language throughout EDEWG 814 change, enrollment, & reinstatement transactions to agree with the data dictionary for the LIN. Wording change is related to removal of word 'obligation' and

		replacement with '*contribution*'.
	▪	Updated Grey Box example for REF*SPL – PJM LMP Bus
January 18, 2006 Version 3.0.2D	▪ ▪	Incorporate NJ Change Control 003 (Update transaction to reflect actual practices) Incorporate NJ Change Control 005 (NJ CleanPower program changes)
October 23, 2006 Version 3.0.3D	▪ •	Incorporate NJ Change Control 008 to reflect NJ CleanPower – unmetered usage for RECO) Incorporate NJ Change Control 009 to reflect NJ CleanPower change for partial usage.
February 12, 2007 Version 3.0.4F	▪	Considered FINAL for PA and NJ
February 22, 2009 Version 3.0.5D	▪	Incorporate NJ Change Control PSEF-E-REF45
January 24, 2010 Version 3.1		This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware.
September 8, 2010 Version 3.1.1D	• •	Incorporate PA Change Control 060 (Admin/Cleaup CC for PA) Incorporate PA Change Control 073 (Modify language throughout EDEWG 814 change, enrollment, & reinstatement transactions to update wording of AMT*KC and AMT*KZ to reflect appropriate PJM terminology. AMTKC = PLC & AMTKZ=NSPL
February 28, 2011 Version 4.0		This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware.
February 16, 2012 Version 4.01	• • • •	Incorporate PA Change Control 085 (REF*KY) Incorporate PA Change Control 090 (REF03 in REF*KY) Incorporate PA Change Control 093 (Admin Updates) Incorporate MD Change Control 010 (PEPCO AMI/Smart Meter Support)
March 8, 2013 Version 6.0	• • • • • • •	Moving to v6.0 to align versions across all transaction sets Cleaned up references to Allegheny and APS throughout document Incorporate PA Change Control 095 (REF03 in REF*KY) Incorporate PA Change Control 096 (clarify AMT*DP) Incorporate PA Change Control 097 (PECO Summary/Interval Support) Incorporate PA Change Control 102 (increase REF*BF length in Data Dictionary) Incorporate MD Change Control 014 (make REF*LF & REF*SV same as PA)
March 17, 2014 Version 6.1	• • • • • •	Incorporate MD Change Control 023 (PHI new CIS, changes to 814R) Incorporate MD Change Control 030 (Net Meter Indicator in REF*KY) Incorporate NJ Change Control Electric 021 (ACE new CIS, changes to 814R) Incorporate NJ Change Control Electric 015 (Net Meter Indicator in REF*KY) Incorporate NJ Change Control Electric 031 (Remove Rockland from Guide) Incorporate NJ Change Control Electric 032 (PSE&G Review Updates)
February 18, 2015 Version 6.2	•	Incorporate PA Change Control 118 (EGS response optional)
March 22, 2019 Version 6.3	•	Incorporate NJ Change Control Electric 048 (NJ Note – End of Clean Power Choice)
March 31, 2020 Version 6.4	•	Incorporate NJ Change Control Electric 050 (Remove old list server references)
March 25, 2022 Version 6.5	•	Incorporate PA Change Control 165 (Update REFSPL to Optional)
April 29, 2023 Version 6.6	• •	Incorporate MD Change Control 067 (Add Supplier Consolidated Billing Support) Incorporate MD Change Control 068v2 (Add Energy Assistance support)

General Notes

Use	• The Reinstatement Request can be used for any of the following situations:
	    • Customer Contacts LDC to Rescind (LDC sends Reinstatement to previous active ESP)
	    • Customer Contacts LDC to Rescind, alleging a slam (LDC sends Reinstatement to previous pending ESP)
	    • LDC reinstates customer after a temporary drop

Tracking number on Request and Response transactions	On the request, the LIN01 is a unique tracking number for each line item (LIN) in this transaction. This number must be unique over all time, and is assigned by the sender of the request transactions. This number must be returned on the response transaction (accept or reject), in the same element (LIN01).
Initiated by LDC	This transaction can only be initiated by the LDC. The customer will need to contact the LDC to rescind a switch.
Information Provided	When the LDC sends the Reinstatement to the ESP, it will contain much of the same information as the original 814 Enrollment Response. The reason for this is to allow the ESP to verify all of the information about the ESP/Customer information relationship.
One Account per 814	One customer account per 814.
Multiple LINs	For the Reinstatement transaction, there may only be one LIN per account per 814.
Response per LIN	There will be one 814 Reinstatement response for each 814 Reinstatement request. In Pennsylvania it's the option of the EGS to send the reinstatement response to LDC imitated reinstatement requests. The 997 Functional Acknowledgement is required by all parties. In the event the EGS opts out of sending the 814 response, the 997 becomes more critical being the proof the EGS processed the utility request.
Echoing Data on Reject	If a transaction is rejected due to invalid information, the Response may echo back the invalid data along with the reason code.
Temporary Drop	If there was an 814D for temporary reasons, the contract should be reactivated by sending a reinstatement (814R).

LDC Definitions:	The term LDC (Local Distribution Company) in this document refers to the utility. Each state may refer to the utility by a different acronym:
	    • EDC – Electric Distribution Company (Pennsylvania, Delaware)
	    • LDC – Local Distribution Company (New Jersey)
	    • EC – Electric Company (Maryland)

ESP Definitions:	The term ESP (Energy Service Provider) in this document refers to the supplier. Each state may refer to the supplier by a different acronym:
	    • EGS – Electric Generation Supplier (Pennsylvania)
	    • TPS – Third Party Supplier (New Jersey)
	    • ES – Electric Supplier (Delaware)
	    • ES – Electricity Supplier (Maryland)

Renewable Energy Provider Definition:	The term Renewable Energy Provider in this document refers to the party that provides Renewable Energy Credits (RECs). This party does not provide generation to the account. Each state may refer to the Renewable Energy Provider by a different acronym: • GPM – Green Power Marketer (New Jersey) **Note:** The transaction will either have an ESP or a Renewable Energy Provider, but not both.

	New Jersey Notes
Rockland Electric Co (RECO)	Rockland Electric Co. does not follow this regional EDI implementation guideline. Instead RECO utilizes the New York EDI standards.
NJ Clean Power Choice	Pursuant to Board Order, Docket No. QO18040393, the Clean Power Choice Program is coming to an end effective February 28, 2019. The EDI segments and data elements used for Clean Power Choice will remain in the EDI Implementation Guidelines to support any cancel/rebill scenarios or for future use in the event another program is established that may need these data elements.

	Maryland Notes
MD Supplier Consolidated Billing (SCB)	Addition of the REF*AAT (Utility Customer Account Nubmer) for inclusion on the MD SCB bills.
Maryland Energy Assistance Program	MD PC55 regulations require Suppliers to be certified by the Maryland PSC to serve customer receiving Energy Assistance. MD EDI CC68v2 addresses changes to the EDI 814 Reinstatement transaction to support PC55 implementation as follows… • Add REF*EA (Energy Assistance Customer) to provide the current status of the customer's Energy Assistance in the Utility System at the time of the Reinstatement Request from the utility o It remains the sole responsibility of the Supplier to confirm the Energy Assistance status directly with the customer and/or the Office of Home Energy Programs (OHEP). The REF*EA is not indicative of the customer's Energy Assistance status in the event the customer is receiving assistance for Gas commodity only or if customer moved into utility service territory and was previously receiving Energy Assistance.

How to Use the Implementation Guideline

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

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

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

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

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

> One or more examples.

Data Element Summary

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

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

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

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

814 General Request, Response or Confirmation
X12 Structure

Functional Group ID=GE

Heading

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

Detail

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

Summary

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

Transaction Set Notes:

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

Data Dictionary for 814 Reinstatement

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

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

43	Generation Services Indicator or Renewable Energy Certificate Service	Indicates a customer request to: **CE** - switch to the designated ESP with which he or she has signed a contract for generation services **RC** – enroll with a Renewable Energy Provider	LIN05 = **CE** or **RC**	LIN02 = **SH** LIN03 = **EL** LIN04 = **SH**	X(2)
44	Action Code	Indicates that the transaction is a request, or whether this transaction has been accepted or rejected.	ASI01= Request: **7** Accept Response: **WQ** Reject Response: **U**	LIN:	X(2)

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

50	Rejection Reason Code	Code explaining reason for rejection.	REF02	LIN: REF01= **7G**	X(3)
51	Rejection Reason Text	Text explaining rejection.	REF03	LIN: REF01= **7G**	X(80)
52	ESP Account Number	ESP Customer Account Number	REF02	LIN: REF01= **11**	X(30)
53	LDC Account Number	LDC Customer Account Number	REF02	LIN: REF01= **12**	X(30)
53.2	LDC Account Number - unmetered	LDC Customer Account Number – Unmetered	REF03	N1: N101 = **8R** REF01 = **12** REF03 = **U**	X(80)
54	Old Account Number	Previous LDC Customer Account Number	REF02	LIN: REF01= **45**	X(30)
54.1	Utility Customer Account Number	Additional Utility Customer Account Number needed for inclusion on MD SCB bills.	REF02	LIN: REF01 = **AAT**	X(30)
54.2	Energy Assistance Customer	Used to indicate Customer's Energy Assistance Program status.	REF02 = **Y** or **N**	LIN: REF01 = **EA**	X(30)
55	Payment Arrangement	Used to indicate whether customer has an active payment arrangement with the LDC.	REF02= **Y** or **N**	LIN: REF01= **4N**	X(1)
56	LDC Billing Cycle	LDC Cycle on which the bill will be rendered	REF02	LIN: REF01= **BF**	X(4)
57	LDC Billing Cycle – special condition	Indicates LDC Bill Cycle has frequency other than monthly	REF03	LIN: REF01= **BF**	X(3)
58	Billing Type	Indicates type of billing - LDC consolidated Billing (REF02=LDC) - ESP consolidated Billing (REF02=ESP) - Dual bills (REF02=DUAL)	REF02	LIN: REF01= **BLT**	X(4)
59	Billing Calculation Method	Indicates party to calculate bill. - LDC calculates bill (REF02=LDC) - Each calculate portion (REF02=DUAL)	REF02	LIN: REF01= **PC**	X(4)
60	LDC Budget Billing Status	Transmits the current budget billing status shown for this customer on the LDC system.	REF02= **Y** or **N**	LIN: REF01= **NR**	X(1)
61	PJM LMP Bus	Point at which the customer is connected to the transmission grid	REF03	LIN: REF01= **SPL**	X(80)

62	Interval Reporting Indicator	Indicates whether interval data will be reported at the detail, summary, or meter level.	REF02= **SUMMARY** or **DETAIL or METERDETAIL**	LIN: REF01= **17**	X(30)
62.1	Special Meter Configuration Code	Used to convey there's a special meter present on the account. For example, Net Metering	REF02	LIN: REF01 = **KY**	X(3)
62.2	Special Meter Configuration Information	PPLEU-used to report the max K1 (demand) the special meter supports	REF03	LIN: REF01 = **KY**	X(80)
63	Customer Contacted LDC to Reinstate Date	Date/Time the customer contacted the LDC to reinstate. CCYYMMDD HHMM ZZ	DTM02, DTM03 & DTM04	LIN: DTM01 = **007**	See EDI Guide
64	Service Period Start	Next Meter Read date on which Energy is expected to flow to this customer for the designated ESP. This will be the same date as the DTM*151 on the Drop transaction.	DTM02	LIN: DTM01 = **150**	9(8)

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

70	Participating Interest	Percent of the customer's load the ESP is requesting service for. If an ESP is only responsible for half of the customer's eligible load, the amount .5 will be returned.	AMT02	LIN: AMT01= **7N**	9(1).99999
71	Eligible Load Percentage	Percent of the customer's load that is eligible for competition. For example, if 2/3 of the customer's load is eligible, the amount .66667 will be returned.	AMT02	LIN: AMT01= **QY**	9(1).99999
72	Percent Tax Exemption	Customer's Tax Exemption Percentage - Residential usually 100% (send 1), Commercial/Industrial - anything other than 0% requires you secure tax exemption certificate. (e.g., if 50% send .5)	AMT02	LIN: AMT01= **DP**	9(1).9(4)
73	State Sales Tax Exemption	Customer's state sales tax exemption. Anything other than zero, supplier is required to secure tax exemption certificate. If 100% tax exempt, send 1.	AMT02	LIN: AMT01=**F7**	9(1).9(4)
74	Air Conditioners in Load Management Program	Number of air conditioners that are part of load cycling program	AMT02	LIN: AMT01=**5J**	9(2)
75	Water Heaters in Load Management Program	Number of water heaters that are part of load cycling program	AMT02	LIN: AMT01=**L0**	9(2)

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

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

90	Loss Factor	Loss factor	REF02	NM1:REF01=**LF**	X(30)
91	Profile Group	A code for the Load Profile used for this customer. Differs by LDC. Codes posted on LDC's Web site.	REF02	NM1: REF01= **LO**	X(30)
92	LDC Rate Code	Code indicating the rate a customer is being charged by LDC per tariff. Codes posted on LDC's Web site	REF02	NM1: REF01= **NH**	X(30)
93	LDC Rate Subclass Code	Used to provide further classification of a rate.	REF02	NM1: REF01= **PR**	X(30)
94	ESP Rate Code	Rate code identified by LDC that reflects the ESP billing rate category	REF02	NM1: REF01= **RB**	X(30)
95	Service Voltage	Service voltage	REF02	NM1:REF01=**SV**	X(30)
96	LDC Meter Cycle	LDC Cycle on which the meter will be read	REF02	NM1: REF01= **TZ**	X(2)
97	Meter Type	Type of Meter	REF02	NM1: REF01= **MT**	X(5)
98	Meter Type Additional Information	Additional information for the meter type	REF03	NM1: REF01= **MT**	X(80)

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

99	Meter Constant/Meter Multiplier	Some factor multiplied by the meter reading to give billed usage.	REF02	NM1: REF01= **4P** REF03 = Meter Type (See REF*MT)	9(9).99
100	Number of Dials / Digits and related decimal positions	Needed to determine usage if meter reading rolls over during the billing period. Number of dials on the meter displayed as the number of dials to the left of the decimal, a decimal point, and number of dials to the right of the decimal.	REF02	NM1: REF01= **IX** REF03 = Meter Type (See REF*MT)	9.9

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

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

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

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**ST01**	**143**	**Transaction Set Identifier Code**	**M ID 3/3**

Code uniquely identifying a Transaction Set

814   General Request, Response or Confirmation

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**ST02**	**329**	**Transaction Set Control Number**	**M AN 4/9**

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

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

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

Data Element Summary

Must Use	Ref. Des.	Data Element	Name		X12 Attributes
Must Use	**BGN01**	**353**	**Transaction Set Purpose Code**	**M**	**ID 2/2**
			Code identifying purpose of transaction set		
			11 Response		
			Signifies that the requested service will be addressed as described in this transaction.		
			13 Request		
Must Use	**BGN02**	**127**	**Reference Identification**	**M**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			A unique transaction identification number assigned by the originator of this transaction. This number must be unique over time.		
Must Use	**BGN03**	**373**	**Date**	**M**	**DT 8/8**
			Date (CCYYMMDD)		
			The transaction creation date – the date that the data was processed by the sender's application system.		
Optional	**BGN06**	**127**	**Reference Identification**	**O**	**AN 1/30**
			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.		

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

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

Data Element Summary

	Ref. Des.	Data Element	Name	X12	Attributes
Must Use	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			8S Consumer Service Provider (CSP)		
			LDC		
Must Use	**N102**	**93**	**Name**	**X**	**AN 1/60**
			Free-form name		
			LDC Company Name		
Must Use	**N103**	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			1 D-U-N-S Number, Dun & Bradstreet		
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
Must Use	**N104**	**67**	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code		
			LDC D-U-N-S Number or D-U-N-S + 4 Number		
Must Use	**N106**	**98**	**Entity Identifier Code**	**O**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual.		
			Used in addition to the N103 and N104 to identify the transaction sender and receiver when more than two parties are identified by N1 loops.		
			40 Receiver		
			Entity to accept transmission		
			41 Submitter		
			Entity transmitting transaction set		

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

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

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			SJ Service Provider		
			ESP		
Must Use	**N102**	**93**	**Name**	**X**	**AN 1/60**
			Free-form name		
			ESP Company Name		
Must Use	**N103**	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			1 D-U-N-S Number, Dun & Bradstreet		
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
Must Use	**N104**	**67**	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code		
			ESP D-U-N-S Number or D-U-N-S + 4 Number		
Must Use	**N106**	**98**	**Entity Identifier Code**	**O**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual.		
			Used in addition to the N103 and N104 to identify the transaction sender and receiver when more than two parties are identified by N1 loops.		
			40 Receiver		
			Entity to accept transmission		
			41 Submitter		
			Entity transmitting transaction set		

Segment:	**N1** Name (G7=Renewable Energy Provider Name)	
Position:	040	
Loop:	N1	
Level:	Heading	
Usage:	Optional	
Max Use:	1	
Purpose:	To identify a party by type of organization, name, and code	
Syntax Notes:	1	At least one of N102 or N103 is required.
	2	If either N103 or N104 is present, then the other is required.
Semantic Notes:		
Comments:	1	This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
	2	N105 and N106 further define the type of entity in N101.

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

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			G7 Entity Providing the Service		
			Renewable Energy Provider		
Must Use	**N102**	**93**	**Name**	**X**	**AN 1/60**
			Free-form name		
			Renewable Energy Provider Company Name		
Must Use	**N103**	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			1 D-U-N-S Number, Dun & Bradstreet		
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
Must Use	**N104**	**67**	**Identification Code**	**X**	**AN 2/20**
			Code identifying a party or other code		
			Renewable Energy Provider D-U-N-S Number or D-U-N-S + 4 Number		
Must Use	**N106**	**98**	**Entity Identifier Code**	**O**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual.		
			Used in addition to the N103 and N104 to identify the transaction sender and receiver when more than two parties are identified by N1 loops.		
			40 Receiver		
			Entity to accept transmission		
			41 Submitter		
			Entity transmitting transaction set		

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

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

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**N101**	**98**	**Entity Identifier Code**	**M ID 2/3**

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

Must Use	**N102**	**93**	**Name**	**X AN 1/60**

Free-form name

Customer Name as it appears on the customer's bill

Conditional	**N103**	**66**	**Identification Code Qualifier**	**X ID 1/2**

Code designating the system/method of code structure used for Identification Code (67)

92 — Assigned by Buyer or Buyer's Agent

Reference Number assigned by and meaningful to the customer. Note that this number is assigned to the LDC and may or may not be applicable to the ESP. **Condition:** The N103 and N104 are optional only on the Request transaction. This information is provided at the point of time in the enrollment or re-instatement; an 814 change will not be processed if this data changes.

Conditional	**N104**	**67**	**Identification Code**	**X AN 2/80**

Code identifying a party or other code

Reference Number assigned by and meaningful to the customer. Note that this number is assigned to the LDC and may or may not be applicable to the ESP. **Condition:** The N103 and N104 are optional only on the Request transaction. This information is provided at the point of time in the enrollment or re-instatement; an 814 change will not be processed if this data changes. This information may also appear on a Rate Ready 810.

Segment:	**N3** Address Information		
Position:	060		
Loop:	N1		
Level:	Heading		
Usage:	Optional		
Max Use:	2		
Purpose:	To specify the location of the named party		
Syntax Notes:			
Semantic Notes:			
Comments:			
PA Use:	Request:	Required for Customer Service Address	
	Response:	Not Used	
NJ Use:	Same as PA		
DE Use:	Same as PA		
MD Use:	Same as PA		
Example:	N3*123 N MAIN ST*MS FLR13		

Data Element Summary

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

Segment:	**N4** **Geographic Location**
Position:	070
Loop:	N1
Level:	Heading
Usage:	Optional
Max Use:	1
Purpose:	To specify the geographic place of the named party
Syntax Notes:	1 If N406 is present, then N405 is required.
Semantic Notes:	
Comments:	1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
	2 N402 is required only if city name (N401) is in the U.S. or Canada.
PA Use:	Request: Required for Customer Service Address Response: Not Used
NJ Use:	Same as PA, with exception of County information which will not be used in New Jersey
DE Use:	Same as PA
MD Use:	Same as PA.
Example:	N4*ANYTOWN*PA*18111**CO*LEHIGH N4*ANYTOWN*PA*181110001**CO*LEHIGH

Data Element Summary

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

Segment:	**PER** Administrative Communications Contact
Position:	080
Loop:	N1
Level:	Heading
Usage:	Optional
Max Use:	>1
Purpose:	To identify a person or office to whom administrative communications should be directed
Syntax Notes:	1 If either PER03 or PER04 is present, then the other is required.
	2 If either PER05 or PER06 is present, then the other is required.
	3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:	
Comments:	
PA Implementation:	Used to provide customer contact information
PA Use:	Request: Conditional: Must send for customer contact information if it is maintained in the utility's system.
	Response: Not Used
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Must send for customer contact information if maintained in the utility system.
	When Bill Type = SCB, utility to return customer Main Contact telephone and email address.
Examples:	PER*IC**TE*8005559876
	PER*IC*JOE DOE*TE*8005559876*FX*8005551111*EM*JOE@SERVICE.COM

Data Element Summary

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

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

PA Use:	Request: Required for Billing Address if different than Service Address Response: Not Used
NJ Use:	Same as PA **Note:** PSEG does not provide.
DE Use:	Same as PA
MD Use:	Same as PA for non-SCB bill type When Bill Type = SCB, utility to provide Customer Billing Address.
Example:	N1*BT*ACCOUNTS PAYABLE DIVISION

Data Element Summary

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

Segment:	**N3** Address Information	
Position:	060	
Loop:	N1	
Level:	Heading	
Usage:	Optional	
Max Use:	2	
Purpose:	To specify the location of the named party	
Syntax Notes:		
Semantic Notes:		
Comments:		
PA Use:	Request:	Required for Billing Address if different than Service Address
	Response:	Not Used
NJ Use:	Same as PA	
	Note: PSEG does not provide.	
DE Use:	Same as PA	
MD Use:	Same as PA for non-SCB bill type	
	When Bill Type = SCB, utility to provide Customer Billing Address.	
Example:	N3*123 N MAIN ST*MS FLR13	

Data Element Summary

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

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

PA Use:	Request: Required for Billing Address if different than Service Address Response: Not Used
NJ Use:	Same as PA **Note:** PSEG does not provide.
DE Use:	Same as PA
MD Use:	Same as PA for non-SCB bill type When Bill Type = SCB, utility to provide Customer Billing Address.
Examples:	N4*ANYTOWN*PA*18111 N4*ANYTOWN*PA*181110001*US

Data Element Summary

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

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

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

Data Element Summary

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

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

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

Data Element Summary

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

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

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

Data Element Summary

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

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

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

Data Element Summary

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

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

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

Data Element Summary

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

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

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

Data Element Summary

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

Segment:	**N3** Address Information	
Position:	060	
Loop:	N1	
Level:	Heading	
Usage:	Optional	
Max Use:	2	
Purpose:	To specify the location of the named party	
Syntax Notes:		
Semantic Notes:		
Comments:		
PA Use:	Request:	Optional for Party to Receive Copy of Bills
	Response:	Not Used
NJ Use:	Same as PA	
	- JCP&L – Maintained in their system for some customers	
	- PSE&G and Atlantic City Electric – Not maintained in their system	
DE Use:	Request:	Optional
	Response:	Not Used
MD Use:	Same as PA	
	- Delmarva, BG&E, PEPCO – not maintained in their system	
Example:	N3*4251 S ELECTRIC ST*MS 25	

Data Element Summary

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

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

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

Data Element Summary

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

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

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

Data Element Summary

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

Segment:	**LIN** Item Identification	
Position:	010	
Loop:	LIN	
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify basic item identification data	
Syntax Notes:	1	If either LIN04 or LIN05 is present, then the other is required.
	2	If either LIN06 or LIN07 is present, then the other is required.
	3	If either LIN08 or LIN09 is present, then the other is required.
	4	If either LIN10 or LIN11 is present, then the other is required.
	5	If either LIN12 or LIN13 is present, then the other is required.
	6	If either LIN14 or LIN15 is present, then the other is required.
	7	If either LIN16 or LIN17 is present, then the other is required.
	8	If either LIN18 or LIN19 is present, then the other is required.
	9	If either LIN20 or LIN21 is present, then the other is required.
	10	If either LIN22 or LIN23 is present, then the other is required.
	11	If either LIN24 or LIN25 is present, then the other is required.
	12	If either LIN26 or LIN27 is present, then the other is required.
	13	If either LIN28 or LIN29 is present, then the other is required.
	14	If either LIN30 or LIN31 is present, then the other is required.
Semantic Notes:	1	LIN01 is the line item identification
Comments:	1	See the Data Dictionary for a complete list of IDs.
	2	LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
PA Use:	Request: Required Accept Response: Required Reject Response: Required if it was provided on the request.	
NJ Use:	Same as PA	
DE Use:	Same as PA	
MD Use:	Same as PA	
Examples:	LIN*REIN1999123108000001*SH*EL*SH*CE	

Data Element Summary

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

Segment:	**ASI** Action or Status Indicator		
Position:	020		
Loop:	LIN		
Level:	Detail		
Usage:	Optional		
Max Use:	1		
Purpose:	To indicate the action to be taken with the information provided or the status of the entity described		
Syntax Notes:			
Semantic Notes:			
Comments:			
Notes:	Identifies the action to be taken or the status of a requested action for the service identified in the LIN segment.		
	Status Reason Codes are conveyed in the REF segment (position 030) rather than in the ASI03, to allow for multiple status reasons.		
PA Use:	Request:	Required	
	Response:	Required	
NJ Use:	Same as PA		
DE Use:	Same as PA		
MD Use:	Same as PA		
Request Example:	ASI*7*025		
Response Examples:	ASI*WQ*025	Accept Response	
	ASI*U*025	Reject Response	

Data Element Summary

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

Segment:	**REF** Reference Identification (7G=Rejection Reason)	
Position:	030	
Loop:	LIN	
Level:	Detail	
Usage:	Optional	
Max Use:	>1	
Purpose:	To specify identifying information	
Syntax Notes:	1	At least one of REF02 or REF03 is required.
	2	If either C04003 or C04004 is present, then the other is required.
	3	If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.
Comments:		
Notes:	This iteration of the REF segment is used to convey the rejection reason codes in response to a Request. The rejection reason codes are conveyed in this segment rather than in the ASI03 to allow for multiple rejection reasons.	
PA Use:	Request: Not Used	
	Accept Response: Not Used	
	Reject Response: Required	
NJ Use:	Same as PA	
DE Use:	Same as PA	
MD Use:	Same as PA	
Example:	REF*7G*A13*ADDITIONAL REASON TEXT HERE	

Data Element Summary

	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 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 reason correctly. Each time "A13" (Other) is used for a new purpose, the utility must inform the EDI Work Group who will determine whether a new code is needed.

Reinstatement Rejection Codes:

Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

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

Optional	**REF03**	**352**	**Description**	**X**	**AN 1/80**

A free-form description to clarify the related data elements and their content
Used to further describe the status reason code sent in REF02. Codes "A13" and "API" require text explanation in this element.

Segment:	**REF** Reference Identification (11=ESP Account Number)
Position:	030
Loop:	LIN
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	ESP Account number should exclude punctuation (spaces, dashes, etc). Significant leading and trailing zeros must be included.
PA Use:	Request: Required if it was provided previously
	Accept Response: Required if it was provided on the request
	Reject Response: Required if it was provided on the request
NJ Use:	Request: Conditional (See **) if it was provided previously
	Accept Response: Required if it was provided on the request
	Reject Response: Required if it was provided on the request
DE Use:	Delmarva will store ESP account number and will be required to send it if it was previously provided to the LDC.
MD Use:	Same as PA
Example:	REF*11*2348400586

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**

Code qualifying the Reference Identification
11   Account Number

ESP-assigned account number for end use customer.

	Ref. Des.	Data Element	Name	X12 Attributes
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

Segment:	**REF** Reference Identification (12=LDC Account Number)
Position:	030
Loop:	LIN
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
PA Use:	Must be identical to account number as it appears on the customer's bill, excluding punctuation (spaces, dashes, etc.). Significant leading and trailing zeros must be included.
	Request: Required
	Accept Response: Required
	Reject Response: Required – when the rejection reason is due to an LDC account number not being provided in the request, this segment must not be sent on the response.
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Example:	REF*12*2931839200

Data Element Summary

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

Segment:	**REF** Reference Identification (45=LDC Old Account Number)	
Position:	030	
Loop:	LIN	
Level:	Detail	
Usage:	Optional	
Max Use:	>1	
Purpose:	To specify identifying information	
Syntax Notes:	**1** At least one of REF02 or REF03 is required.	
	2 If either C04003 or C04004 is present, then the other is required.	
	3 If either C04005 or C04006 is present, then the other is required.	
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.	
Comments:		
PA Use:	Request: Required if the account number has changed in the last 60 days.	
	Response: Not Used	
NJ Use:	Same as PA	
DE Use:	Not Used	
MD Use:	Not Used by BGE, PEPCO, or Delmarva.	
	PE: Required if the account number has changed in the last 60 days.	
Example:	REF*45*1105687500	

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**

Code qualifying the Reference Identification

    45   Old Account Number

                    LDC's previous account number for the end use customer.

	Ref. Des.	Data Element	Name	X12 Attributes
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

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

PA Use:	Not Used
)NJ Use:	Not Used
MD Use:	LDC to send ESP Utility Customer Account Number for inclusion on SCB bill. Must be included on SCB bills in addition to the LDC Account Number (REF*12)
	Request: Not Used
	CE Accept Response: Required if Bill Option = Supplier Consolidated Billing, otherwise Not Used
	All Other Accept Responses Not Used
	Reject Response: Optional
	Not Used
Example:	REF*AAT*123456789012345

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		
			AAT Utility Customer Account Number		
			LDC assigned Customer Account Number for Inclusion on MD SCB bills.		
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		

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

PA Use:	Not Used	
NJ Use:	Not Used	
DE Use:	Not Used	
MD Use:	Request:	Required
	CE Accept Response:	Not Used
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
Example:	REF*EA*Y	
	REF*EA*N	

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

EA	Energy Assistance Customer
	Used to indicate customer's Energy Assistance status at the time of enrollment.

	Ref. Des.	Data Element	Name	X12 Attributes	
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

Y	Customer is on Energy Assistance
N	Customer is not on Energy Assistance

Segment:	**REF** Reference Identification (4N=Payment Arrangement)
Position:	030
Loop:	LIN
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
PA Use:	Used to convey current LDC Payment Arrangement Status of the customer at the point of time of the Enrollment. An 814 Change would not be processed if the status changed.
	Request: Required for PPL EU
	Response: Not Used
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Not Used
Example:	REF*4N*N

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	REF01	128	**Reference Identification Qualifier**	M	ID 2/3

Code qualifying the Reference Identification

	4N	Special Payment Reference Number	

Used to indicate that customer has made a payment arrangement.

	Ref. Des.	Data Element	Name	X12 Attributes	
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

Y	Customer has an active payment arrangement	
N	Customer does not have an active payment arrangement	

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

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

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			BF Billing Center Identification		
			LDC Billing cycle. Cycle number when the billing will be rendered.		
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		
Optional	**REF03**	**352**	**Description**	**X**	**AN 1/80**
			A free-form description to clarify the related data elements and their content		
			BIM Bi-Monthly		
			Indicates account is billed every other month. **Note:** Used only in Maryland		

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

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

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**

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.

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**REF02**	**127**	**Reference Identification**	**X AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

> When REF01 is BLT, valid values for REF02 are:
>   LDC - The LDC bills the customer
>   ESP - The ESP bills the customer
>   DUAL - Each party bills the customer for its own portion
>
> **Note:** In New Jersey, only LDC and DUAL are valid.

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

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

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**

Code qualifying the Reference Identification

PC   Production Code

Identifies the party that is to calculate the charges on the bill.

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**REF02**	**127**	**Reference Identification**	**X AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

When REF01 is PC, valid values for REF02 are:
  LDC - The LDC calculates the charges on the bill (Rate Ready)
  DUAL - Each party calculates its portion of the bill (Dual or Bill Ready)

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

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

Segment:	**REF** Reference Identification (NR=LDC Budget Billing Status)	
Position:	030	
Loop:	LIN	
Level:	Detail	
Usage:	Optional	
Max Use:	>1	
Purpose:	To specify identifying information	
Syntax Notes:	1	At least one of REF02 or REF03 is required.
	2	If either C04003 or C04004 is present, then the other is required.
	3	If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.
Comments:		
PA Use:	Used to convey the budget billing status at the point of time of the enrollment. An 814 change would not be sent if the status changed.	
	Request:	Required for PECO; Optional for others
	Response:	Not Used
NJ Use:	Not Used	
DE Use:	Not Used	
MD Use:	Not Used	
Example:	REF*NR*Y	

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	REF01	128	**Reference Identification Qualifier**	M	ID 2/3

Code qualifying the Reference Identification

NR   Progress Payment Number

               Used to convey LDC Budget Billing Status

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	REF02	127	**Reference Identification**	X	AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

When REF01 is NR, valid values for REF02 are:
   Y – LDC is Budget Billing LDC charges for this account.
   N – LDC is not Budget Billing LDC charges for this account.

Segment:	**REF** Reference Identification (SPL=PJM LMP Bus)	
Position:	030	
Loop:	LIN	
Level:	Detail	
Usage:	Optional	
Max Use:	>1	
Purpose:	To specify identifying information	
Syntax Notes:	1	At least one of REF02 or REF03 is required.
	2	If either C04003 or C04004 is present, then the other is required.
	3	If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.
Comments:		
PA Use:	Note that the PJM LMP Bus must appear in the REF03 because REF02 is limited to 30 characters and this field requires at least 32.	
	Request: Optional	
	Response: Not Used	
NJ Use:	Same as PA	
DE Use:	Same as PA	
MD Use:	Same as PA	
Example:	REF*SPL** PJM192478939901287748	

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**

Code qualifying the Reference Identification

SPL Standard Point Location Code (SPLC)

Point at which the customer is connected to the transmission grid (PJM LMP Bus). The represents the Wholesale Settlement Bus.

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**REF03**	**352**	**Description**	**X AN 1/80**

A free-form description to clarify the related data elements and their content

PJM LMP Bus – Note REF03 is used, not REF02!!

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

PA Use:	If the LDC supports the summary interval at the account level, the LDC will send the REF*17 segment as part of the reinstatement request. The value of the REF02 field for the REF*17 segment will either be "SUMMARY" or "DETAIL". **Note:** The REF*17 is being sent under the LIN05 code of "CE" as part of the reinstatement. If the LDC only supports the summary interval data at the supplier level, no REF*17 segment will be sent as part of the reinstatement.

	Request:	Conditional – always sent if the LDC supports setting of interval summary/detail at the account level, and this is an interval account. Will not be sent if the LDC supports setting of interval summary/detail at the supplier level.
	Response:	Not Used

NJ Use:	Optional. JCP&L will send "SUMMARY" value when Interval Summary has been established for this account. Not provided by the other EDCs.
DE Use:	Not Used
MD Use:	Same as PA
Example:	REF*17*SUMMARY REF*17*DETAIL REF*17*METERDETAIL (PECO only)

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification	
			17 Client Reporting Category	
			Used to convey whether the supplier will receive summary only information for this interval account, or whether the supplier will receive detail and associated summary information for this interval account.	
Must Use	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

When REF01 is 17, valid values for REF02 are:
  SUMMARY – Metering party will send only summary level data for this interval account.
  DETAIL – Metering party will send detail data and its associated summary information for this interval account. For PECO this will interpret as account-level detail.
  METERDETAIL – Metering party will send interval details for each meter on the account (PECO only)

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

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

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	REF01	128	**Reference Identification Qualifier**	M	ID 2/3

Code qualifying the Reference Identification

KY	Site Specific Procedures, Terms, and Conditions Special Meter Configuration

	Ref. Des.	Data Element	Name	X12 Attributes	
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

ASUN	Net Metering Solar
AWIN	Net Metering Wind
AHYD	Net Metering Hydro
ABIO	Net Metering Biomass
AWST	Net Metering Waste
ACHP	Net Metering Combined Heat and Power
AMLT	Net Metering Multiple Different Sources
NSUN	Non-Net Metering Solar
NWIN	Non-Net Metering Wind
NHYD	Non-Net Metering Hydro
NBIO	Non-Net Metering Biomass
NWST	Non-Net Metering Waste
NCHP	Non-Net Metering Combined Heat and Power
NFOS	Non-Net Metering Fossil Fuel
NMLT	Non-Net Metering Multiple Different Sources
NETMETER	Net Meter (Used for EDCs who will not report the specific type of net meter)

	Ref. Des.	Data Element	Name	X12 Attributes	
Optional	REF03	352	**Description**	X	AN 1/80

A free-form description to clarify the related data elements and their content

	PPLEU: Used for the output rating of the generation equipment reporting in KW and reflects the maximum generation the equipment can produce at any one time

DTM Date/Time Reference (007=Effective Date)

Position:	040
Loop:	LIN
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.
	2 If DTM04 is present, then DTM03 is required.
	3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:	
Comments:	
Notes:	To specify a time zone (DTM04), both DTM03 and DTM04 must be present.
PA Use:	Request: Required
	Response: Not Used
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Example:	DTM*007*19990411*1430*ET
	DTM*007*19990411

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	DTM01	374	Date/Time Qualifier	M	ID 3/3

Code specifying type of date or time, or both date and time

    007   Effective Date

          The date/time the customer contacted the LDC to reinstate service with the ESP.

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	DTM02	373	Date	X	DT 8/8

Date expressed as CCYYMMDD

	Ref. Des.	Data Element	Name	X12 Attributes	
Optional	DTM03	337	Time	X	TM 4/8

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Time expressed as HHMM format

	Ref. Des.	Data Element	Name	X12 Attributes	
Optional	DTM04	623	Time Code	O	ID 2/2

Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

    CT   Central Time

    ET   Eastern Time

    MT   Mountain Time

    PT   Pacific Time

Segment:	**DTM** Date/Time Reference (150=Service Start Date)	
Position:	040	
Loop:	LIN	
Level:	Detail	
Usage:	Optional	
Max Use:	>1	
Purpose:	To specify pertinent dates and times	
Syntax Notes:	1	At least one of DTM02 DTM03 or DTM05 is required.
	2	If DTM04 is present, then DTM03 is required.
	3	If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:		
Comments:		

Notes:	Date which energy is expected to flow for this customer for this ESP. This will be the same date as the DTM*151 on the drop transaction.
PA Use:	Request: Required Response: Not Used
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Example:	DTM*150*19990115

Data Element Summary

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

Segment:	**AMT** Monetary Amount (7N=Participating Interest)	
Position:	060	
Loop:	LIN	
Level:	Detail	
Usage:	Optional	
Max Use:	>1	
Purpose:	To indicate the total monetary amount	
Syntax Notes:		
Semantic Notes:		
Comments:		
Notes:	Use precision to the fifth decimal place.	
PA Use:	Request:	Required – will always be 100%
	Response:	Not Used
NJ Use:	Request:	Will always be 100%
	Response:	Not Used
DE Use:	Same as NJ	
MD Use:	Same as NJ	
Examples:	AMT*7N*1	AMT*7N*.66667
	AMT*7N*.5	AMT*7N*.33333

Data Element Summary

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

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.

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**AMT02**	**782**	**Monetary Amount**	**M R 1/18**

Monetary amount

For percentage values, the whole number "1" represents 100 percent; decimal numbers less than "1" represent percentages from 1 percent to 99 percent.

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

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

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

Segment:	**AMT** Monetary Amount (QY=Eligible Load Percentage)
Position:	060
Loop:	LIN
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To indicate the total monetary amount
Syntax Notes:	
Semantic Notes:	
Comments:	
Notes:	Use precision to the fifth decimal place.
PA Use:	Request: Required – will always reflect 100%. Response: Not Used
NJ Use:	Same as PA. However, Request will always reflect 100%.
DE Use:	Same as NJ
MD Use:	Same as PA. However, Request will always reflect 100%.
Example:	AMT*QY*.66667

Data Element Summary

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

Code to qualify amount

QY   Qualified

Eligible Load Percentage. Percentage of the customer's load that is eligible for competition.

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**AMT02**	**782**	**Monetary Amount**	**M R 1/18**

Monetary amount

For percentage values, the whole number "1" represents 100 percent; decimal numbers less than "1" represent percentages from 1 percent to 99 percent.

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

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

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

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

PA Implementation:	This field is used for the non-billing party to tell the billing party the tax exemption amount that should be entered into the billing party's system in order to calculate a bill on the sender's behalf. This is required only for rate-ready LDC Consolidated billing where the LDC has loaded the ESP rates into their system, the LDC calculates the ESP charges, and places the ESP charges on the LDC bill. The following generic rules are offered to better explain the use of the segment for PA: - Residential customers default to '1' (AMT*DP*1~) as 100% tax exempt unless the residence is used for business purposes or vacation home. - Commercial customers default to '0' (AMT*DP*0~) being 0% tax exempt unless the customer presents a sales tax exemption certificate. Should the customer have a tax exemption percentage less than 100% but greater than 0%, the value would be reported as a decimal (AMT*DP*.5~). A tax exemption certificate must be secured from the customer. It's the ESP's responsibility to ensure the value in the AMTDP is accurate based on the customer's tax status. Under Rate Ready billing, correcting inaccurate customer bills due to incorrect tax exemption is not the LDC's responsibility and in most cases requires the Supplier to address directly with the customer.
PA Use:	Request: Required if LDC is calculating the ESP portion of the bill Response: Not Used
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Not Used Maryland tax exemptions apply to a specific tax. Each tax has a separate AMT segment. The current applicable tax is State Sales tax (AMT*F7)
Examples:	AMT*DP*.75 AMT*DP*.7599

Data Element Summary

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

			Code to qualify amount
			    DP Exemption
			                Tax Exemption: This code is used when a portion of the provided service is exempt from taxation. Element AMT02 identifies the percentage of the service that is tax exempt.	

Must Use	AMT02	782	**Monetary Amount**	M R 1/18
			Monetary amount For percentage values, the whole number "1" represents 100 percent; decimal numbers less than "1" represent percentages from 1 percent to 99.9999 percent.	

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

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

Data Element Summary

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

Code to qualify amount

F7   Sales Tax

State Sales Tax Exemption: This code is used when a portion of the provided service is exempt from taxation. Element AMT02 identifies the percentage of the service that is tax exempt.

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	AMT02	782	**Monetary Amount**	M R 1/18

Monetary amount

For percentage values, the whole number "1" represents 100 percent; decimal numbers less than "1" represent percentages from 1 percent to 99.9999 percent.

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

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

Data Element Summary

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

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

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

Data Element Summary

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

			Code to qualify amount
			    L0 Liquid Assets
			                       Water Heaters that are part of load management program	

Must Use	**AMT02**	**782**	**Monetary Amount**	**M R 1/18**
			Monetary amount Whole number that indicates number of devices that are part of load management program.	

Segment:	**AMT** Monetary Amount (KC=Peak Load Capacity)
Position:	060
Loop:	LIN
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To indicate the total monetary amount
Syntax Notes:	
Semantic Notes:	
Comments:	
Notes:	Zero values may be sent if the LDC is, in fact, stating that there is no contribution for this customer's account.
PA Use:	Request: Required for PJM Participants only
	Accept Response: Not Used
	Reject Response: Not Used
NJ Use:	Request: Required
	Response: Not Used
	NJ Note: PSE&G sends Capacity Obligation to PJM.
DE Use:	Same as NJ
MD Use:	Same as PA
Example:	AMT*KC*752

Data Element Summary

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

Code to qualify amount
KC   Obligated

Peak Load Capacity (a.k.a. Load Responsibility): Peak load contributions provided to PJM for Installed Capacity calculation (coincident with PJM peak).

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**AMT02**	**782**	**Monetary Amount**	**M R 1/18**

Monetary amount
Peak Load Capacity

Segment:	**AMT** Monetary Amount (KZ=Network Service Peak Load)
Position:	060
Loop:	LIN
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To indicate the total monetary amount
Syntax Notes:	
Semantic Notes:	
Comments:	
Notes:	Zero values may be sent if the LDC is, in fact, stating that there is no contribution for this customer's account.
PA Use:	Request: Required for PJM Participants only
	Response: Not Used
NJ Use:	Same as PA
	NJ Note: PSE&G sends Transmission Obligation to PJM.
DE Use:	Same as PA
MD Use:	Same as PA
Example:	AMT*KZ*752

Data Element Summary

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

Segment:	**NM1** Individual or Organizational Name	
Position:	080	
Loop:	NM1	
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To supply the full name of an individual or organizational entity	
Syntax Notes:	1	If either NM108 or NM109 is present, then the other is required.
	2	If NM111 is present, then NM110 is required.
Semantic Notes:	1	NM102 qualifies NM103.
Comments:	1	NM110 and NM111 further define the type of entity in NM101.
Notes:	This segment is used to convey meter level information.	
PA Use:	Request: Required	
	Response: Not Used	
NJ Use:	Same as PA	
DE Use:	Same as PA	
MD Use:	Same as PA	
Examples:	NM1*MQ*3******32*1234568MG	
	NM1*MQ*3******32*UNMETERED	

Data Element Summary

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

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

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

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			LF Load Planning Number		
			Loss Factor		
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		

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

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

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**

Code qualifying the Reference Identification
    LO   Load Planning Number

                            Load profile

	Ref. Des.	Data Element	Name	X12 Attributes	
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

Segment:	**REF** Reference Identification (NH=LDC Rate Class)		
Position:	130		
Loop:	NM1		
Level:	Detail		
Usage:	Optional		
Max Use:	>1		
Purpose:	To specify identifying information		
Syntax Notes:	1	At least one of REF02 or REF03 is required.	
	2	If either C04003 or C04004 is present, then the other is required.	
	3	If either C04005 or C04006 is present, then the other is required.	
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.	
Comments:			
PA Use:	Request:	Required for each meter that is used for billing purposes. This segment must also be sent when account has UNMETERED services available for generation service.	
	Response:	Not Used	
NJ Use:	Same as PA		
DE Use:	Same as PA		
MD Use:	Same as PA		
Example:	REF*NH*RS1		

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			NH Rate Card Number		
			Identifies a LDC rate class or tariff		
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		

Segment:	**REF** Reference Identification (PR=LDC Rate Subclass)	
Position:	130	
Loop:	NM1	
Level:	Detail	
Usage:	Optional	
Max Use:	>1	
Purpose:	To specify identifying information	
Syntax Notes:	1	At least one of REF02 or REF03 is required.
	2	If either C04003 or C04004 is present, then the other is required.
	3	If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.
Comments:		
PA Use:	Request:	Conditional: If maintained by utility, must be sent for each meter that is used for billing purposes. This segment must also be sent when account has UNMETERED services available for generation service.
	Response:	Not Used
NJ Use:	Same as PA	
DE Use:	Not Used	
MD Use:	Same as PA	
Example:	REF*PR*123	

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			PR Price Quote Number		
			LDC Rate Subclass – Used to provide further classification of a rate.		
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		

Segment:	**REF** Reference Identification (RB=ESP Rate Code)
Position:	130
Loop:	NM1
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
PA Use:	Rate codes are established between the LDC and ESP prior to Enrollment.
	Request: Required if the LDC is calculating the ESP charges (Rate Ready) This segment must also be sent when account has UNMETERED services available for generation service (Rate Ready).
	Response: Not Used
NJ Use:	Same as PA. However, on the Request, this segment will only be used in JCP&L territory for Rate Ready.
DE Use:	Same as PA **Delmarva Note:** Not Used until Delmarva implements Rate Ready
MD Use:	Same as PA
Example:	REF*RB*A29

Data Element Summary

	Ref. Des.	Data Element	Name		X12 Attributes
Must Use	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			RB Rate code number		
			ESP Rate Code for the customer		
Must Use	REF02	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment:	**REF** Reference Identification (SV=Service Voltage)	
Position:	130	
Loop:	NM1	
Level:	Detail	
Usage:	Optional	
Max Use:	>1	
Purpose:	To specify identifying information	
Syntax Notes:	1	At least one of REF02 or REF03 is required.
	2	If either C04003 or C04004 is present, then the other is required.
	3	If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.
Comments:		
PA Use:	Request:	Required for First Energy Companies; Optional for others
	CE Accept Response:	Not Used
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
NJ Use:	Not Used	
DE Use:	Not Used	
MD Use:	Same as PA	
Example:	REF*SV*SECONDARY	

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			SV Service Charge Number		
			Service Voltage		
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		
			PRIMARY		
			SECONDARY		
			Actual service voltage transmission value (Ex: 34.5kV)		

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

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

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	REF01	128	**Reference Identification Qualifier**	M ID 2/3
			Code qualifying the Reference Identification	
			TZ Total Cycle Number	
			LDC Meter Cycle. Cycle number when the meter will be read.	
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	

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

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

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**

Code qualifying the Reference Identification

MT   Meter Ticket Number

Meter Type

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

When REF01 is MT, the meter type is expressed as a five-character field. The first two characters are the type of consumption, the last three characters are the metering interval, except for the combination meter that records more than one measurement and is noted as "COMBO". Valid values can be a combination of the following values:

Type of Consumption		Metering Interval	
K1	Kilowatt Demand	Nnn	Number of minutes from 001 to 999
K2	Kilovolt Amperes Reactive Demand	ANN	Annual
K3	Kilovolt Amperes Reactive Hour	BIA	Bi-annual
K4	Kilovolt Amperes	BIM	Bi-monthly
K5	Kilovolt Amperes Reactive	DAY	Daily
KH	Kilowatt Hour	MON	Monthly
T9	Thousand Kilowatt Hours	QTR	Quarterly

For Example:

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

Other Valid Codes

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

| Optional | REF03 | 352 | Description | | X | AN 1/80 |

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

PECO PA Use: When REF01 is MT, valid values for REF03 are:
I – Interval data available
M – Interval data NOT available

Segment:	**REF** Reference Identification (4P=Meter Multiplier)
Position:	130
Loop:	NM1
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	

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

Data Element Summary

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

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

PA Use:	There will be one REF*IX segment for each Meter Type. This means that there may be more than one REF*IX segment per meter. For instance, when meter type is "COMBO", there may be a REF*IX to indicate the dials for the demand (example: REF*IX*5.1*K1015) and a REF*IX to indicate the dials for the kWh (example: REF*IX*6.0*KH015).

	Request:	Required for each meter type for each meter that is used for billing purposes that has dials. This segment will **not** be provided in the NM1 loop for UNMETERED services.
	Response:	Not Used

NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Examples:	REF*IX*6.0*KHMON REF*IX*5.1*K1MON REF*IX*4.2*K1015

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**

Code qualifying the Reference Identification

IX	Item Number	

Number of Dials on the Meter displayed as the number of dials to the left of the decimal, a decimal point, and the number of dials to the right of the decimal.

	Ref. Des.	Data Element	Name	X12 Attributes	
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

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	**REF03**	**352**	**Description**	**X**	**AN 1/80**

A free-form description to clarify the related data elements and their content

Meter Type (see REF*MT for valid codes). "COMBO" is not a valid code in this element.

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

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

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

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

TU   Trial Location Code

Used to indicate the type of metering information that will be sent on the 867 transaction.

	Ref. Des.	Data Element	Name	X12 Attributes	
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

41   Off Peak

42   On Peak

43   Intermediate

51   Totalizer

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	**REF03**	**352**	**Description**	**X**	**AN 1/80**

A free-form description to clarify the related data elements and their content

Meter Type (see REF*MT for valid codes). "COMBO" is not a valid code for this element.

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

PA Use:	Required
NJ Use:	Required
DE Use:	Required
MD Use:	Required
Example:	SE*28*000000001

Data Element Summary

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

814 Reinstatement Examples:

Example: Reinstatement Request

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

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

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

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

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

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

Example: Reinstatement Response – Accepted

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

BGN*11*199904020830531*19990402***199904011956531	BGN segment indicating this is a Response transaction, and referencing the original Request transaction
N1*8S*LDC COMPANY*1*007909411**40	LDC Name and DUNS information (receiver)
N1*SJ*ESP COMPANY*9*007909422ESP1**41	ESP Name and DUNS information (submitter)
N1*8R*CUSTOMER NAME	Customer Name
LIN*REIN1999123100002*SH*EL*SH*CE	Transaction reference number, and enrollment request for generation services (This is echoed from request transaction)
ASI*WQ*025	**Accept** Reinstatement request
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number

Example: Reinstatement Response – Rejected

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

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

Example: Reinstatement Request for Renewable Energy Provider

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

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