Pennsylvania
New Jersey
Delaware
Maryland

Implementation Guideline

For

Electronic Data Interchange

TRANSACTION SET

814

Enrollment
Request and Response
Ver/Rel 004010

Table of Contents

	Summary of Changes
June 11, 1999 Version 1.0	• Added ability for an ESP to request a secondary service of receiving Summary level Interval information for Pennsylvania (See Notes section for description of service). New features include use of a LIN05 value "SI" and use of an account level REF segment "17". If secondary service is not requested, and interval data exists for the account, the ESP will receive interval data and its related summary data in a single transaction (867IU). If the code is sent, the ESP will receive summarized data only on a monthly basis (867IU). **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. • Added clarification that Rockland Electric's system maintains the duplicate bill and notice to third party. Transaction is considered FINAL in Pennsylvania.
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" • Clarified requirement of REF*17 • 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 the upgrade from Version 3070 to Version 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 examples (Zip+4 on N4, FX & EM on PER, etc.) • Updated rules for status and rejection reasons. • Combined "PA Implementation" with "PA Use" • On the REF*MT & REF*TU segments, changed "This segment must also be sent when account has UNMETERED services available for generation service (Rate Ready)." to "This segment will not be provided in the NM1 loop for UNMETERED services." • Changed Note from "One 814 per Account" to "One Account per 814". • Clarified text explaining "Unknown LIN05 Codes" • Clarified text explaining "Rejection vs. Acceptance with Status Reason code" • Clarified text explaining " Requesting Summary Only information for Interval Data" • Clarified text in LIN03 explaining "Secondary Service" • Clarified DTM129 "Customer Contract Effective Date" to indicate the Date is required for CE Request only - not all Requests • 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	• Spell check corrections • Formatting corrections
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	Change Control Process Change #004: • N1*8R – corrected examples for customer reference number • Reordered the REF*7G Error codes alphabetically

	• Added note to REF*TZ (LDC Meter Cycle) that it is optional for Unmetered • Historical Usage, Meter Information and Summary Interval Response Examples - changed "13" to "11" in BGN01 • Special Meter Read Example – changed "029" to "021" in multiple request • AMT*DP provided in Multiple Response Example (and should not be) • Modified Notes section on unknown LIN05 codes to be consistent with other content in Implementation Guide. • Added tentative use for Delaware Delmarva • Added clarifying note for meter type – if COMBO, only send one REF*MT. • Added note for Delmarva indicating they will only be storing 20 characters. • Rejection Examples: Remove sending of echoed fields. It is allowed, but is optional, and most utilities will not be sending it. • Added clarifying note for use of tax exemption percent in NJ • Fixed some X12 definitions • Added clarifying note regarding invalid LIN05 codes • Added clarifying note regarding REF03 field for meter ("COMBO" is not valid)
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 • Added REF03 to REF*BF for special condition for bill cycle for MD
December 23, 1999 Version 2.3MD2	• Clarified Delmarva and Allegheny plans for sending monthly interval data • Remove REF*17 (Field 57) from CE Lin Data Dictionary • 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) • Move Maryland Historical Usage notes from REF*1P to General Notes section • Remove REF*PRT for Load Cycling Device for Md (this method did not solve issue since it was at meter level and did not indicate quantity) • 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) • Added Rejection Reason codes ANQ (Billing Agent not certified by utility) and C02 (customer on credit hold) to support ESP consolidated billing (PA)
February 24, 2000 Version 2.3MD3	• Clarified County field for N1*8R for Maryland • Added City tax for MD • Added clarification for APS in MD on sending of 867HU • Renumbered items in data dictionary where City added • Added FRD as rejection code for MD and DE (Delmarva) - (Bill Option not valid for this type of document)
March 31, 2000 Version 2.3MD4	• Corrected TOC for REF=PR • Added MD comment to indicate Historical Usage request was initially only considered for already enrolled customers. Its use for Pre-enrollment still being negotiated as of 3/2000. • This transaction is considered FINAL for Maryland
March 31, 2000 Version 2.3MD5	• Clarified PA Notes on response when using SI secondary service request BY account • Corrected LIN examples from LIN*SH to LIN*1*SH

May 14, 2000 Version 2.4	• Incorporate PA Change Request X020 – Two new REF*7G codes (NCB and NEB) for supplier consolidated billing • 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. • Indicated DTM*MRR not used Day 1 for NJ or DE Delmarva • Indicate PSEG does not provide Bill Address information (N1*BT). • REF*7G responses for CE – Indicate following codes are not valid for NJ: ANQ, NCB, NEB, RCF • 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. • Add clarification to DTM*129 field to indicate PSE&G expects to receive only eastern time.
September 10, 2000 Version 2.5	This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware (Delmarva only).
June 15, 2001 Version 2.6	REF*7G (Rejection Reason Code) – modified note on rejection code "CO2" to included NJ.
October 19, 2001 Version 2.6rev01	• Incorporate Delaware Electric Coop (DEC) information for Delaware • Incorporate PA Change Control 027 – Allow use of D30 as a valid rejection code (customer has requested rejections of enrollments by this ESP) • Incorporate PA Change Control 029 – ESP Account number should exclude punctuation, and must include significant leading and trailing zeros. • Incorporate PA Change Control 031 – Add REF*7G code of UNE to indicate the utility code not be identified. • Correct Data Element number (352) for REF03 in REF*BF and REF*SPL segments
December 13, 2001 Version 2.6rev02	Incorporate PA Change Control 038 – indicate AMT*7N and AMT*QY must 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 5, 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*'. ▪ Deleted note in first bullet under General Notes section, Unknown LIN05 codes, PA Rules. Also deleted all references to the SNP code in the REF*7G. The SNP code is not longer be in use by any PA EDC.
January 20, 2006 Version 3.02D	▪ Incorporate NJ Change Control 003 (Update transaction to reflect actual practices) ▪ Incorporate NJ Change Control 005 (NJ CleanPower program changes) ▪ Note NJ Change Control 003 included creating separate boxes for each state's notes. The text of the other state's notes did not change.
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

August 8, 2009 Version 3.0.7D	▪ Incorporate PA Change Control 050 – changes for 867HI ▪ Incorporate NJ Change Control PSEG-E-REF45 and PSEG-E-HI ▪ Incorporate MD Change Control RM17-814 ▪ Incorporate MD Change Control RM17-HU ▪ Incorporate PA Change Control 057
January 24, 2010 Version 3.1	This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware.
November 4, 2010 Version 3.1.1D	• Incorporate PA Change Control 060 (PA Admin/Cleanup Change Control) • Incorporate PA Change Control 061 (Clarify DTM129) • Incorporate PA Change Control 065 (Add REFLF and REFSV to NM1 loop) • Incorporate PA Change Control 067 (PPLEU Rate Ready) • Incorporate PA Change Control 068 (PECO 867HI Implementation) • Incorporate PA Change Control 070 (Remove HG from LIN05) • 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 • Incorporate MD Change Control – REF1P (MD notes & use of REF1P for MD) • Incorporate MD Change Control – Admin (Admin/cleanup for MD)
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 089 (MTI in REF*7G) • Incorporate PA Change Control 090 (REF03 in REF*KY) • Incorporate PA Change Control 093 (Admin Updates) • Incorporate PA Change Control 094 (new REF*7G codes) • Incorporate MD Change Control 008 (clarify PEPCO HU/HI Support) • 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 098 (Add LSI code to REF*7G for CE) • Incorporate PA Change Control 100 (Add support for ESP Referral Program Enrollments via EDI) • Incorporate PA Change Control 101 (remove AMT*LD from request; rescinds CC 58) • Incorporate PA Change Control 102 (increase REF*BF length in Data Dictionary) • Incorporate PA Change Control 104 (rescind CC 100 – ESP Referral Program) • Incorporate MD Change Control 014 (make REF*LF & REF*SV same as PA) • Incorporate MD Change Control 015 (add support of 867HI for MD) • Removed Special Read (SR) as valid code in LIN, no utility in region supports

	General Notes
One Account per 814	One customer account per 814.
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).
Multiple LINs	• There may be multiple detail LIN loops for each customer account. • It is important that the sender order the LIN loops in the order they would like them processed for all primary services. • Refer to the LIN segment within this document for a better understanding of primary and secondary services. • The sender may send one service per account per 814 instead of using multiple LIN segments.
Response per LIN	• There must be one response LIN for each request LIN. • These responses may be created and sent at different times in different 814 transactions, but all LINs must be responded to within the time limits set by the respective Commission.
Rejection vs. Acceptance with Status Reason code	• A Status Reason code is different than a Rejection Reason code. The Status Reason code is used to give additional information to the receiving party (an FYI). For example, if a request for Historical Usage is sent and the transaction is valid, but historical usage is not available for that customer, the transaction is accepted and a status reason code is provided to explain that the historical usage will not be sent. If a transaction is rejected, the requester is expected to follow up and resubmit; whereas if a transaction is accepted with a status reason code, the requester is not expected to take any further action.
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.

	Pennsylvania Notes
Unknown LIN05 codes	**PA Rules:** • If an LDC receives a request for a service that the state does not support, the LDC should **reject** it with a REF*7G*SDE*SERVICE DOES NOT EXIST • If an LDC receives a request for a service that the state supports, but the LDC does not, the LDC should **accept** it, but then send a status code REF*1P*SNP*SERVICE NOT PROVIDED

Requesting Summary Only information for Interval Data (**PA Only**)	Every utility must provide the ability for a supplier to receive interval data at either the summary level or the detail level.
	• The default, except for PPL EU and PECO, is that an ESP will receive interval data at the summary and the detail level. If an ESP wants interval data at both the summary and the detail level the ESP does not need to take any action.
	   • For PPL EU, because nearly all customers have interval meters, the default is for the ESP to receive summary data only. If an ESP wants interval data at both the summary and detail levels, the ESP must submit "SI" and include the REF*17*DETAIL segment.
	   • For PECO, the default is also for the ESP to receive summary data. If an ESP wants interval data at the detail level, the ESP must submit "SI" and specify account-level versus meter-level detail via the REF*17 segment. Please note that, unlike PPL EU, PECO does not provide interval data for billing at both the summary and detail levels; The ESP may receive either summary or detail, but not both.
	
	• If an ESP wants to receive interval data at only the summary level, the ESP must:
	   • Contact the LDC to determine if the LDC supports summary level data by account or by ESP
	   • If the LDC supports summary level interval data by account, the ESP must submit "SI" in the LIN05 to indicate that only summary level interval data is requested for the account.
	   • If the LDC supports summary level interval data by ESP (PECO follows this practice), the "SI" in the LIN05 is not used. The ESP must call the supplier interface group at the LDC to request summary level interval data. The LDC will then return summary level interval data for ALL accounts for that ESP.
	   • For PPL EU, if an ESP wants interval data at both the summary and detail levels, the ESP must submit "SI" and include the REF*17*DETAIL segment
	   • As stated above, PECO does not provide interval data for billing at both the summary and detail levels; The ESP may receive either summary or detail, but not both.
	
	Responses to a Summary Interval Request (LIN05=SI):
	• If the utility does not provide this capability by account, they will accept the request, but respond with a Status Reason code (1P) of SNP for "Service Not Provided".
	• **Excluding PECO:** If the utility provides this service by account, but the account is not an interval account, they will accept the request, but respond with a Status Reason code (1P) of UMA for "Unmetered or non-interval account".
	   • PECO provides this service by account. If the account is not an interval account, PECO will reject the request, responding with a Status Reason code (7G) of NIA for "Not interval account".
	
	If the utility provides this service by account, and the account is an interval account, the utility will accept this request, and in their response send a REF*17*SUMMARY.

	New Jersey Notes
Unknown LIN05 codes	**NJ Rules:** • If an LDC receives a request for a service that it does not support (whether the state supports it or not), the LDC should **accept** it, but then send a status code REF*1P*SNP*SERVICE NOT PROVIDED
Requesting Summary Only information for Monthly Interval Data	Details for each EDC: • PSE&G – all interval accounts will receive interval details. Accounts that have both interval and non-interval meters will receive the 867IU with information relating to both interval and non-interval meters. • JCP&L and Atlantic City Electric – An enrollment for an interval account will automatically default to receive an 867 IU with interval detail. A TPS can request to receive interval summary by sending a LIN loop with LIN05 = SI and REF*17*SUMMARY. • Rockland – due to the limited number of accounts with interval meters, RECO does not provide interval data via EDI.

	Delaware
Unknown LIN05 codes	**DE Rules:** • If an LDC receives a request for a service that it does not support (whether the state supports it or not), the LDC should **accept** it, but then send a status code REF*1P*SNP*SERVICE NOT PROVIDED

	Maryland Notes
Unknown LIN05 codes	**MD Rules:** • If an LDC receives a request for a service that it does not support (whether the state supports it or not), the LDC should **accept** it, but then send a status code REF*1P*SNP*SERVICE NOT PROVIDED

Requesting Summary Only information for Monthly Interval Data (**MD Only**)	Every utility must provide the ability for a supplier to receive interval data at either the summary level or the detail level.
	• The default is that an ESP will receive interval data at the summary and the detail level. If an ESP wants interval data at both the summary and the detail level the ESP does not need to take any action.
	• If an ESP wants to receive interval data at only the summary level, the ESP must:
	  • If the LDC supports summary level interval data by account, the ESP must submit "SI" in the LIN05 to indicate that only summary level interval data is requested for the account.
	  • If the LDC supports summary level interval data by ESP, the "SI" in the LIN05 is not used. The ESP must call the supplier interface group at the LDC to request summary level interval data. The LDC will then return summary level interval data for ALL accounts for that ESP.
	Responses to a Summary Interval Request (LIN05=SI):
	• If the utility does not provide this capability at the account level, they will accept the

	request, but respond with a Status Reason code (1P) of SNP for "Service Not Provided". • If the utility provides this service at the account level, but the account is not an interval account, they will accept the request, but respond with a Status Reason code (1P) of UMA for "Unmetered or non-interval account". • If the utility provides this service at the account level, and the account is an interval account, the utility will accept this request, and in their response send a REF*17*SUMMARY. If Interval Detail is to be provided, the following are the plans by utility: - BG&E – No 867IU will be sent. Interval data will be provided on web; however, an 867MU will be provided for the Summary data. - Delmarva & Potomac Edison – Will provide 867IU - PEPCO –For non-AMI/Smart Metered billed accounts, no 867IU will be sent. Interval data will be provided on the web; however, an 867MU will be provided for the Summary data. Will provide the 867IU on AMI/Smart Interval Meter Billed accounts as of April 1, 2012. If Interval Summary is to be provided, all utilities will provide 867MU. To request receiving Summary Interval only, a supplier can either send an SI LIN loop with the Enrollment, or as a Change Request at a later date.
Maryland – Handling of Historical Usage Requests:	Special Historical Usage Notes: Maryland EDI CC 15 added support of the EDI 867 Historical Interval (HI) transaction for Maryland. As of 1/28/13 the actual implementation dates have yet to be determined or if the historical data will be provided at the account or meter level for all ECs. **BG&E Note:** If this is an Historical Usage (HU) request for a interval account, the response will be accepted with a status of "SNP". This informs the supplier that the historical interval data is available on the web. If this is an Historical Usage (HU) request for a non-interval account, the response will be accepted and the historical usage will be provided via an 867HU. BGE moving to HU/HI support via EDI and pre-enrollment for more information contact BGE supplier support. **Delmarva Note:** Delmarva will provide an 867HU (Monthly Historical information) for all Historical Usage (HU) requests. Requests for historical interval data must be made outside of EDI. Delmarva to support 867HI during new CIS implementation tentatively scheduled for 3Q 2014. **PEPCO Note:** - Interval metered accounts (non-AMI/Smart meter): The HU request will be accepted with REF1P = HIA. 867HU summary will be provided and the historical interval data is posted on the web. - Non-Interval metered accounts & AMI/Smart metered accounts: The HU request will be accepted and the historical usage will be provided via EDI 867HU. If no historical usage is available, the request will be accepted with REF1P = HUU and no 867HU will be sent. PEPCO to support 867HI during new CIS implementation tentatively scheduled for 3Q 2014. **Potomac Edison Note:** PE will provide an 867HU (Monthly Historical Information) for all Historical usage (HU) requests. Requests for historical interval data must be made outside of EDI. Potomac Edison to support 867HI estimated 3Q/4Q 2013 and will provide at the account level.
Maryland – Handling of Pre-Enrollment Historical Usage Requests:	Potomac Edison, Delmarva, and PEPCO support using EDI to satisfy summary level pre-enrollment historical usage requests for supplier who have met state and utility specific requirements. BGE supports pre-enrollment via web based tool only.

Maryland – RM17 814 HU Responses:	The following fields will be sent in the 814 Historical Usage accept response transaction from the LDC to the ESP. Service Address fields (N1*8R - N3, N4, PER segments) Billing Address fields (N1*BT - N3, N4, PER segments)

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 Generation Services (LIN05=CE)

	Generation Services (CE) Request and Response Data Dictionary				
Appl Field	*Field Name*	*Description*	*EDI Segment*	*Loop / Related EDI Qualifier*	*Data Type*
1	Transaction Set Purpose Code	Request = **13** Response = **11**	BGN01		X(2)
2	Transaction Reference Number	A unique transaction identification number assigned by the originator of this transaction. This number must be unique over time.	BGN02		X(30)
3	System Date	Date that the data was processed by the sender's application system.	BGN03		9(8)
4	Original Transaction Reference Number	Transaction Reference Number echoed from the Original Request Transaction (BGN02).	BGN06		X(30)
5	LDC Name	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)
8.1	Renewable Energy Provider Name	Renewable Energy Provider 's Name	N102	N1: N101 = **G7**	X(60)
8.2	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 for Contact for Copies of Notices	Third Party Name for Contact 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	PER02	N1: N101 = **2C**	X(60)
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: ASI02= **021**	X(2)
	Note that the following REF segments may appear in any order on the actual EDI transaction.				
45	Rejection Reason Code	Code explaining reason for rejection.	REF02	LIN: REF01= **7G**	X(3)
46	Rejection Reason Text	Text explaining rejection.	REF03	LIN: REF01= **7G**	X(80)
47	Status Reason Code	Code providing additional information	REF02	LIN: REF01= **1P**	X(3)
48	Status Reason Code Text	Text detailing the information	REF03	LIN: REF01= **1P**	X(80)
49	ESP Account Number	ESP Customer Account Number	REF02	LIN: REF01= **11**	X(30)
50	LDC Account Number	LDC Customer Account Number	REF02	LIN: REF01= **12**	X(30)
51	Old Account Number	Previous LDC Customer Account Number	REF02	LIN: REF01= **45**	X(30)
52	Payment Arrangement	Used to indicate whether customer has an active payment arrangement with the LDC.	REF02= **Y** or **N**	LIN: REF01= **4N**	X(1)
53	LDC Billing Cycle	LDC Cycle on which the bill will be rendered	REF02	LIN: REF01= **BF**	X(4)
55	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)

56	Billing Calculation Method	Indicates party to calculate bill. • LDC calculates bill (REF02=LDC) • - Each party calculates its portion of the bill (REF02=DUAL)	REF02	LIN: REF01= **PC**	X(4)
57	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)
58	PJM LMP Bus	Point at which the customer is connected to the transmission grid	REF03	LIN: REF01= **SPL**	X(80)
59	Summary Interval	Used to convey the level of interval data the ESP will receive (REF03=SUMMARY) information, or detail and summary (REF03=DETAIL) information for an interval usage account. For PECO this is Account-Level Detail data. (REF03=METERDETAIL) information for an interval usage account at meter level (PECO only)	REF03	LIN: REF01= **17**	X(80)
60	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)
61	Special Meter Configuration Information	PPLEU-used to report the max K1 (demand) the special meter supports	REF03	LIN: REF01 = **KY**	X(80)
62	Customer Contract Effective Date/Time	Date/Time ESP entered into contract with customer – used to determine which supplier is the last one in. CCYYMMDD HHMM ZZ	DTM02, DTM03 & DTM04	LIN: DTM01 = **129**	See EDI Guide
63	Service Period Start	Date on which energy is expected to flow to this customer for the designated ESP.	DTM02	LIN: DTM01 = **150**	9(8)

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

64	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
65	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
66	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)
67	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)

68	Air Conditioners in Load Management Program	Number of air conditioners that are part of load cycling program	AMT02	LIN: AMT01=**5J**	9(2)
69	Water Heaters in Load Management Program	Number of water heaters that are part of load cycling program	AMT02	LIN: AMT01=**L0**	9(2)
70	Peak Load Contribution	Peak Load Contribution (PLC) provided to PJM for Installed Capacity calculation (coincident with PJM's peak)	AMT02	LIN: AMT01=**KC**	9(9).99
71	Network Service Peak Load	Customer's Network Service Peak Load (NSPL) provided to PJM for the transmission service calculation (coincident with LDC peak)	AMT02	LIN: AMT01=**KZ**	9(9).99
72	Number of Months	Number of Months over which the Total kWh (AMT*TA) and/or Peak Demand (AMT*MA) are calculated.	AMT02	LIN: AMT01=**LD**	9(2)
73	Peak Demand (12 mo)	Highest usage in the last 12 months (kW).	AMT02	LIN: AMT01=**MA**	9(11).999
74	ESP Rate	Actual ESP Billing Rate to be used by LDC to calculate ESP charges	AMT02	LIN: AMT01=**RJ**	9(2).9(4)
75	Total kWh	Total kWh for the number of months specified in the AMT*LD segment (actual or estimated).	AMT02	LIN: AMT01=**TA**	9(15)
76	Meter Number	Number which identifies meter	Request: NM109=**ALL** Response: 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.				
77	Loss Factor	Loss factor	REF02	NM1:REF01=**LF**	X(30)
78	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)
79	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)
80	LDC Rate Subclass Code	Used to provide further classification of a rate.	REF02	NM1: REF01=**PR**	X(30)
81	ESP Rate Code	ESP rate code for customer	REF02	NM1: REF01=**RB**	X(30)
82	Service Voltage	Service voltage	REF02	NM1:REF01=**SV**	X(30)
83	LDC Meter Cycle	LDC Cycle on which the meter will be read	REF02	NM1: REF01=**TZ**	X(2)
84	Meter Type	Type of Meter	REF02	NM1: REF01=**MT**	X(5)
85	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:					
86	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
87	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
88	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)

Data Dictionary for Historical Usage Requests (LIN05=HU, HI)

Request for Historical Usage (HU) Request and Response Data Dictionary					
Appl Field	*Field Name*	*Description*	*EDI Segment*	*Loop / Related EDI Qualifier*	*Data Type*
1	Transaction Set Purpose Code	Request = **13** Response = **11**	BGN01		X(2)
2	Transaction Reference Number	A unique transaction identification number assigned by the originator of this transaction. This number must be unique over time.	BGN02		X(30)
3	System Date	Date that the data was processed by the sender's application system.	BGN03		9(8)
4	Original Transaction Reference Number	Transaction Reference Number echoed from the Original Request Transaction (BGN02).	BGN06		X(30)
5	LDC Name	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**	X(13)
9	Service Address	Customer Service Address	N301 & N302	N1: N101 = **8R**	X(55)
9.1	City	Customer Service Address	N401	N1: N101 = **8R** **MD ONLY**	X(30)
9.2	State	Customer Service Address	N402	N1: N101 = **8R** **MD ONLY**	X(2)
9.3	Zip Code	Customer Service Address	N403	N1: N101 = **8R** **MD ONLY**	X(9)
9.4	County	Customer Service County	N406	N101 = **8R** N405 = **CO** **MD ONLY**	X(30)
9.5	Customer Contact Name	Customer Contact Name	PER02	PER01=**IC** **MD ONLY**	X(60)
9.6	Customer Telephone Number	Contact Telephone Number for the customer	PER04	N1: N101 = **8R** PER01 = **IC** PER03 = **TE** **MD ONLY**	X(10)

9.7	Customer Billing Street Address	Customer Billing Address	N301 & N302	N1: N101 = **BT** **MD ONLY**	X(55)
9.8	Billing City	Customer Billing Address	N401	N1: N101 = **BT** **MD ONLY**	X(30)
9.9	Billing State	Customer Billing Address	N402	N1: N101 = **BT** **MD ONLY**	X(2)
9.10	Billing Zip Code	Customer Billing Address	N403	N1: N101 = **BT** **MD ONLY**	X(9)
9.11	Billing Country Code	Customer Billing Address	N404	N1: N101 = **BT** **MD ONLY**	X(3)
9.12	Billing Contact Name	Billing Contact Name	PER02	PER01=**IC** **MD ONLY**	X(60)
9.13	Billing Telephone #	Contact Telephone Number related to this billing address	PER04	N1: N101 = **BT** PER01 = **IC** PER03 = **TE** **MD ONLY**	X(10)
10	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)
11	Historical Usage	Indicates an ESP request to obtain historical usage information for this customer. Historical Usage will be returned on an EDI 867 transaction.	LIN05 = **HU** **or HI or HG**	LIN02 = **SH** LIN03 = **EL** LIN04 = **SH**	X(2)
12	Action Code	Indicates that the transaction is a request, or whether this transaction has been accepted or rejected.	ASI01= Request: **7** Accept Response: **WQ** Reject Response: **U**	LIN: ASI02= **029**	X(2)
13	Rejection Reason Code	Code explaining reason for rejection.	REF02	LIN: REF01= **7G**	X(3)
14	Rejection Reason Text	Text explaining rejection.	REF03	LIN: REF01= **7G**	X(80)
15	Status Reason Code	Code to provide status information for a secondary service.	REF02	LIN: REF01= **1P**	X(3)
16	Status Reason Text	Text to provide status information.	REF03	LIN: REF01= **1P**	X(80)
17	ESP Account Number	ESP Customer Account Number	REF02	LIN: REF01= **11**	X(30)
18	LDC Account Number	LDC Customer Account Number	REF02	LIN: REF01= **12**	X(30)
19	Old Account Number	Previous LDC Customer Account Number	REF02	LIN: REF01= **45**	X(30)

Data Dictionary for Summary Interval (LIN05=SI)

Appl Field	Field Name	Description	EDI Segment	Loop / Related EDI Qualifier	Data Type
Request for Summary Interval Information (SI) 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 time.	BGN02		X(30)
3	System Date	Date that the data was processed by the sender's application system.	BGN03		9(8)
4	Original Transaction Reference Number	Transaction Reference Number echoed from the Original Request Transaction (BGN02).	BGN06		X(30)
5	LDC Name	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**	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	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)
11	Summary Interval Information	Indicates an ESP request to obtain interval data at the level defined in the REF*17 segment	LIN05 = **SI**	LIN02 = **SH** LIN03 = **EL** LIN04 = **SH**	X(2)

12	Action Code	Indicates that the transaction is a request, or whether this transaction has been accepted or rejected.	ASI01= Request: **7** Accept Response: **WQ** Reject Response: **U**	LIN: ASI02= **021**	X(2)
13	Rejection Reason Code	Code explaining reason for rejection.	REF02	LIN: REF01= **7G**	X(3)
14	Rejection Reason Text	Text explaining rejection.	REF03	LIN: REF01= **7G**	X(80)
15	Status Reason Code	Code to provide status information for a secondary service.	REF02	LIN: REF01= **1P**	X(3)
16	Status Reason Text	Text to provide status information.	REF03	LIN: REF01= **1P**	X(80)
17	ESP Account Number	ESP Customer Account Number	REF02	LIN: REF01= **11**	X(30)
18	LDC Account Number	LDC Customer Account Number	REF02	LIN: REF01= **12**	X(30)
18.2	LDC Account Number - unmetered	LDC Customer Account Number – Unmetered	REF03	N1: N101 = **8R** REF01 = **12** REF03 = **U**	X(80)
19	Old Account Number	Previous LDC Customer Account Number	REF02	LIN: REF01= **45**	X(30)
20	Interval Reporting Level	Indicates that interval data will be reported at the level requested.	REF02= **SUMMARY** or **DETAIL** Or for PECO-only **METERDETAIL** (**DETAIL** = Account-Level Detail)	LIN: REF01= **17**	X(30)

Segment:	$\textbf{ST}$ **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 is 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
NJ Use:	Same as PA
DE Use :	Same as PA
MD Use:	Same as PA
Request Example:	N1*8S*LDC COMPANY*1*007909411**40 (as Receiver)
Response Example:	N1*8S*LDC COMPANY*1*007909411**41 (as Sender)

Data Element Summary

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

Code identifying an organizational entity, a physical location, property or an individual

8S		Consumer Service Provider (CSP)
		LDC

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	N102	93	Name	X	AN 1/60

Free-form name

LDC Company Name

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	N103	66	Identification Code Qualifier	X	ID ½

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

	Ref. Des.	Data Element	Name	X12 Attributes	
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

	Ref. Des.	Data Element	Name	X12 Attributes	
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
	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 Example:	N1*SJ*ESP COMPANY*9*007909422ESP1**41 (as Sender)
Response Example:	N1*SJ*ESP COMPANY*9*007909422ESP1**40 (as Receiver)

Data Element Summary

	Ref. Des.	Data Element	Name		X12 Attributes	
Must Use	**N101**	**98**	**Entity Identifier Code**		**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 ½**
			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	
Response Example:	N1*8R*CUSTOMER NAME*92*1210	
	N1*8R*CUSTOMER NAME	

Data Element Summary

	Ref. Des.	Data Element	Name		X12 Attributes
Must Use	**N101**	**98**	**Entity Identifier Code**	**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 ½**

Code designating the system/method of code structure used for Identification Code (67)
      92   Assigned by Buyer or Buyer's Agent

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

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 Accept Response transaction. This information is provided at the point of time in the enrollment; an 814 change will not be processed if this data changes. This information may also appear on a Rate Ready 810.

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:	Not Used
	CE Accept Response:	Required for Customer Service Address
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
NJ Use:	Same as PA	
DE Use :	Same as PA	
MD Use:	Same as PA, except segment also sent on HU response.	
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:	Not Used
	CE Accept Response:	Required for Customer Service Address
	All other Accept Responses:	Not Used
	Reject 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, except segment also sent on HU response.	
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 ½**
			Code identifying type of location		
			PA: N405 and N406 are provided on the accept response ONLY when the customer premise is believed to be located 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 accept response 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 Use:	Used to provide customer contact information
	Request:
	CE Accept Response:
	All other Accept Responses:
	Reject Response:
NJ Use:	Same as PA
DE Use :	Same as PA
MD Use:	Same as PA, except segment also sent on HU response.
Examples:	PER*IC**TE*8005559876
	PER*IC*JOE DOE*TE*8005559876*FX*8005551111*EM*JOE@SERVICE.COM

PA Use: Used to provide customer contact information
Request: Not Used
CE Accept Response: Must send for Service Address if maintained in the utility system
All other Accept Responses: Not Used
Reject Response: Not Used

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**

Segment:	**N1** Name (BT=Bill Address)
Position:	040
Loop:	N1
Level:	Heading:
Usage:	Recommended
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:	Not Used
	CE Accept Response:	Required for Billing Address if different than Service Address
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
	Note: Duquesne Light does not provide.	
NJ Use:	Same as PA	
	Note: PSEG does not provide.	
DE Use :	Same as PA	
MD Use:	Same as PA, except segment also sent on HU response.	
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:	Not Used
	CE Accept Response:	Required for Billing Address if different than Service Address
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
	Note: Duquesne Light does not provide.	
NJ Use:	Same as PA	
	Note: PSEG does not provide.	
DE Use:	Same as PA	
MD Use:	Same as PA, except segment also sent on HU response.	
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:	Not Used
	CE Accept Response:	Required for Billing Address if different than Service Address
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
	Note: Duquesne Light does not provide.	
NJ Use:	Same as PA	
	Note: PSEG does not provide.	
DE Use:	Same as PA	
MD Use:	Same as PA, except segment also sent on HU response	
Example:	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 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 Use:	Request:	Not Used
	CE Accept Response:	Required for Billing Address if different than Service Address and maintained in utility's system.
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
	Note: Duquesne Light does not provide.	
NJ Use:	Same as PA	
DE Use:	Same as PA	
MD Use:	Same as PA, except segment also sent on HU response.	
Example:	PER*IC*ACCTS PAYABLE*TE*8005559876*FX*8005556789*EM*CUSTOMER @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 (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:	Not Used
	CE Accept Response:	Optional for Party to Receive Copy of Notices (not bills)
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
NJ Use:	Request:	Not Used
	CE Accept Response:	Optional for Party to Receive Copy of Notices (not bills)
		JCP&L, Rockland – Maintained in their system for some customers
		Atlantic City Electric, PSE&G – Not maintained in their system
	All other Accept Responses:	
	Reject Response:	Not Used
		Not Used
DE Use:	Request:	Not Used
	CE Accept Response:	Not Used
	All other Accept Responses:	Not Used
	Reject Response:	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:	Not Used
	CE Accept Response:	Optional for Party to Receive Copy of Notices (not bills)
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
NJ Use:	Same as PA –	
	JCP&L, Rockland – 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: Not Used
	CE Accept Response: Optional for Party to Receive Copy of Notices (not bills)
	All other Accept Responses: Not Used
	Reject Response: Not Used
NJ Use:	Same as PA –
	JCP&L, Rockland – 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 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 Use:	Request:	Not Used
	CE Accept Response:	Optional for Party to Receive Copy of Notices (not bills)
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
NJ Use:	Same as PA –	
	JCP&L, Rockland – 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:	PER*IC*ANN SMITH*TE*8005559876*FX*8005556789*EM*CUSTOMER@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

	Ref. Des.	Data Element	Name	X12 Attributes	
Optional	**PER02**	**93**	**Name**	**O**	**AN 1/60**

Free-form name

	Ref. Des.	Data Element	Name	X12 Attributes	
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

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	**PER04**	**364**	**Communication Number**	**X**	**AN 1/80**

Complete communications number including country or area code when applicable

	Ref. Des.	Data Element	Name	X12 Attributes	
Optional	**PER05**	**365**	**Communication Number Qualifier**	**X**	**ID 2/2**

Code identifying the type of communication number

    EM   Electronic Mail
    FX   Facsimile
    TE   Telephone

	Ref. Des.	Data Element	Name	X12 Attributes	
Optional	**PER06**	**364**	**Communication Number**	**X**	**AN 1/80**

Complete communications number including country or area code when applicable

	Ref. Des.	Data Element	Name	X12 Attributes	
Optional	**PER07**	**365**	**Communication Number Qualifier**	**X**	**ID 2/2**

Code identifying the type of communication number

    EM   Electronic Mail
    FX   Facsimile
    TE   Telephone

	Ref. Des.	Data Element	Name	X12 Attributes	
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 Bill)**
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:	Not Used
	CE Accept Response:	Optional for Party to Receive Copy of Bills
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
NJ Use:	Request:	Not Used
	CE Accept Response:	Optional for Party to Receive Copy of Bills
		JCP&L, Rockland, Atlantic City Electric – Maintained in their system for some customers
		PSE&G–Not maintained in their system
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
DE Use:	Request:	Not Used
	CE Accept Response:	Optional
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
MD Use:	Request:	Not Used
	CE Accept Response:	Optional for Party to Receive Copy of Bills
		Delmarva – Maintained in their system for some customers
		BG&E, PEPCO – Not maintained in their system
		Not Used
	All other Accept Responses:	Not Used
	Reject Response:	
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.

	Ref. Des.	Data Element	Name	X12 Attributes
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:	Not Used
	CE Accept Response:	Optional for Party to Receive Copy of Bills
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
NJ Use:	Same as PA	
	JCP&L, Rockland, Atlantic City Electric – Maintained in their system for some customers	
	PSE&G – Not maintained in their system	
DE Use:	Optional	
MD Use:	Same as PA	
	Delmarva – Maintained in their system for some customers	
	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** Address information	M AN 1/55
Optional	**N302**	**166**	**Address Information** Address information	O AN 1/55

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

PA Use:	Request: Not Used
	CE Accept Response: Optional for Party to Receive Copy of Bills
	All other Accept Responses: Not Used
	Reject Response: Not Used
NJ Use:	Same as PA
	JCP&L, Rockland, Atlantic City Electric – Maintained in their system for some customers
	PSE&G – Not maintained in their system
DE Use:	Optional
MD Use:	Same as PA
	Delmarva – Maintained in their system for some customers
	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 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 Use:	Request:	Not Used
	CE Accept Response:	Optional for Party to Receive Copy of Bills
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
NJ Use:	Same as PA	
	JCP&L, Rockland, Atlantic City Electric – Maintained in their system for some customers	
	PSE&G – Not maintained in their system	
DE Use:	Optional	
MD Use:	Same as PA	
	Delmarva – Maintained in their system for some customers	
	BG&E, PEPCO – not maintained in their system	
Example:	PER*IC*THOMAS SMITH*TE*8005552878*FX*8005556789*EM*CUSTOMERSERV@.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	

	Ref. Des.	Data Element	Name	X12 Attributes	
Optional	**PER02**	93	**Name**	**O**	**AN 1/60**

Free-form name

	Ref. Des.	Data Element	Name	X12 Attributes	
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

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	**PER04**	364	**Communication Number**	**X**	**AN 1/80**

Complete communications number including country or area code when applicable

	Ref. Des.	Data Element	Name	X12 Attributes	
Optional	**PER05**	365	**Communication Number Qualifier**	**X**	**ID 2/2**

Code identifying the type of communication number

EM	Electronic Mail
FX	Facsimile
TE	Telephone

	Ref. Des.	Data Element	Name	X12 Attributes	
Optional	**PER06**	364	**Communication Number**	**X**	**AN 1/80**

Complete communications number including country or area code when applicable

	Ref. Des.	Data Element	Name	X12 Attributes	
Optional	**PER07**	365	**Communication Number Qualifier**	**X**	**ID 2/2**

Code identifying the type of communication number

EM	Electronic Mail
FX	Facsimile
TE	Telephone

	Ref. Des.	Data Element	Name	X12 Attributes	
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.
	PA Options	
	The only valid codes in Pennsylvania are Generation Services (CE), Historical Usage (HU), Historical Interval (HI), and Summary Interval (SI).	
	PA Processing Order	
	Only one service may be requested per LIN loop and it is important that the sender order the LIN loops in the order that they would like them processed for all primary services. It is required that the LIN for Generation Services (CE) be sent prior to all secondary services if the secondary services are dependent upon the successful enrollment.	
NJ Use:	Request:	Required
	Accept Response:	Required
	Reject Response:	Required if it was provided on the request.
	NJ Options	
	The only valid codes in New Jersey are Generation Services (CE), Historical Usage (HU), Renewable Energy Certificate Service (RC), and Summary Interval (SI).	
DE Use:	Request:	Required
	Accept Response:	Required
	Reject Response:	Required if it was provided on the request.
	Delmarva DE Options	
	The only valid codes in Delaware (Delmarva) are Generation Services (CE) and Historical Usage (HU)	
MD Use:	Request:	Required
	Accept Response:	Required
	Reject Response:	Required if it was provided on the request.

			MD Options
			The only valid codes in Maryland are Generation Services (CE), Historical Usage (HU), Historical Interval (HI), and Summary Interval (SI). See MD notes section for use of HI
			Note: PEPCO in Maryland will accept secondary services request "SI" regardless of meter type (interval or non-interval). If account is interval billed, the 867MU summary transaction will be sent (with the non-AMI/Smart meter interval data posted on the website).

Examples:	LIN*CE199912310800000001*SH*EL*SH*CE	(Generation Services)
	LIN*HU199912310800000002*SH*EL*SH*HU	(Historical Usage)
	LIN*HU199912310800000007*SH*EL*SH*HI	(Historical Interval Usage)
	LIN*SI199912310800000005*SH*EL*SH*SI	(Summary Interval)
	LIN*SI199912310800000006*SH*EL*SH*RC	(Renewable Energy Services)

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

Primary Service:	Primary Services include the following:
	    Generation Services (CE)
	    Renewable Energy Certificate Service (RC)
	
	Primary services must be responded to with an Accept or a Reject at the LIN level. If the transaction *cannot* be processed in the application system (e.g. the enrollment fails due to missing or invalid data) the transaction must be Rejected (ASI01="U") and a Rejection Reason Code is provided in REF*7G. **Note:** In New Jersey, the only valid primary services are Generation Services (CE) and Renewable Energy Certificate Service (RC).

Secondary Service:	Secondary Services include the following:
	    Historical Usage (HU)
	    Historical Interval (HI)
	    Summary Interval (SI)
	
	Secondary services must be responded to with an Accept or a Reject at the LIN level. However, the "rejection" is treated differently than primary services.

Must Use	LIN05	234	Product/Service ID	M	AN 1/48

Identifying number for a product or service

"Primary Service"	CE	Generation Services
		Indicates this transaction relates to Generation Services.
"Primary Service"	RC	Renewable Energy Certificate Services

		Indicates this transaction relates to Renewable Energy Certificate Services.
"Secondary Service"	HU	Historical Usage
		Indicates an ESP request to obtain historical usage information for this customer. The usage data is returned on an EDI 867 in addition to the 814 Response • If this service cannot be provided, the associated REF*1P can be "HUU" or "HUR"
"Secondary Service"	HI	Historical Interval Usage
		Indicates an ESP request to obtain historical interval usage information for this customer. If historical interval not available, a REF*1P will be sent with "HIU".
"Secondary Service"	SI	Summary Interval
		Indicates an ESP request to obtain interval data at the level requested in the REF*17 segment.. This must be sent with a Generation/Renewable Energy Certificate Enrollment or after a Generation / Renewable Energy Certificate Enrollment. • If this service is not provided, the associated REF*1P is "SNP". • If this service is not provided at an account level (i.e., the meter agent requires that a decision be made for all accounts for the ESP), the associated REF*1P is "SNP".

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 Accept Response: Required Reject Response: Required
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Request Example:	ASI*7*021
Response Examples:	ASI*WQ*021 Accept Response ASI*U*021 Reject Response

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**ASI01**	**306**	**Action Code**	M ID ½

Code indicating type of action
- 7   Request
- U   Reject
- WQ   Accept

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**ASI02**	**875**	**Maintenance Type Code**	M ID 3/3

Code identifying the specific type of item maintenance
- 021   Addition

  Used when requesting the following services:
  CE – Generation Services
  RC – Renewable Energy Certificate Services
  SR – Special Meter Read
  SI – Summary Information for Interval Account
- 029   Inquiry

  Use when requesting the following services:
  HU – Historical Usage
  HI – Historical Interval Usage

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:	If an LDC receives a request for a service that the state does not support, the LDC should **reject** it with a REF*7G*SDE*SERVICE DOES NOT EXIST
	If an LDC receives a request for a service that the state supports, but the LDC does not, the LDC should **accept** it, but then send a status code REF*1P*SNP*SERVICE NOT PROVIDED
	Request: Not Used
	Accept Response: Not Used
	Reject Response: Required
NJ Use:	If an LDC receives a request for a service that it does not support (whether the state supports it or not), the LDC should **accept** it, but then send a status code REF*1P*SNP*SERVICE NOT PROVIDED
DE Use:	Same as NJ
MD Use:	Same as NJ
Example:	REF*7G*A13*ADDITIONAL REASON TEXT HERE

Data Element Summary

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

Rules for Rejection Reason Codes

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

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

PA Listserver: edewg@ls.eei.org
NJ Listserver: njbpu@ls.eei.org

Generation Services (CE) Rejection Codes:

Must Use	REF02	127	Reference Identification	X	AN 1/30

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

008	Account exists but is not active
021	Move Pending
	Customer will be moving before the ESP would become active.
A13	Other
	REF03 Required. Send email to 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.
A91	Service is not offered at customer's location
	For instance, used to indicate that this is a gas only account, no electric service exists on the account.
ABN	Duplicate request received
ACI	Action Code (ASI01) Invalid
ANE	Account Not Eligible
ANL	Service provider not licensed to provide requested service
ANQ	Billing Agent not certified by Utility
	Not valid in NJ
ANV	Account Not Volunteered
API	Required information missing (REF03 Required)
B33	Customer name is missing from the request
C02	Customer is on Credit Hold
	Valid in PA when consolidated bill requested for customer who has been switched to DUAL billing due to delinquencies when making the other party whole.
	Valid in NJ when consolidated bill requested for customer is deemed not creditworthy.
C03	Customer Enrolled in USF
	NJ - Only valid in NJ Renewable Energy Provider program
CAP	CAP accounts must be submitted as dual bill
	PA – Duquesne Only
CMP	Customer locked with ESP
	The customer has enrolled with another ESP and the rescission period has expired. The customer cannot be enrolled until the pending enrollment is complete.
	Used in NJ when enrollment is requested for Renewable Energy Certificate Services and customer is enrolled with an ESP.
	Used in MD when enrollment is received after allowed time period.
D30	Customer has indicated they did not want to be marketed to by this ESP
DIV	Date/Time Invalid or Missing
	Used to indicate any error in the Customer Contract Effective Date (DTM*129). This would indicate an invalid date, such as 2/30/2000.
FRB	Incorrect Billing Option (REF*BLT) Requested
FRC	Incorrect Bill Calculation Method (REF*PC) Requested
FRD	Bill Option not valid for this type of account
	Valid in MD/DE (Delmarva): Used when consolidated bill option selected for manually billed account.
LSI	LIN Sequence Invalid
MTI	Maintenance Type Code (ASI02) Invalid

	NCB		EGS not certified to provide requested bill option		
			Not valid in NJ		
	NEB		Customer not eligible for requested bill option		
			Not valid in NJ		
	NLC		CAP accounts must use lowest cost supplier		
			PA – Duquesne Only		
	NLI		Not Last In		
	PII		Participating Interest Invalid (Percent Participation)		
	RCF		Rate Class Full		
			Not valid in NJ		
	SDE		Service Does Not Exist		

SDE: PA Rules: Used ONLY when the LDC receives a request for a service that the **state** does not support. REF*1P*SNP is used if the LDC receives a request that the state supports, but the LDC does not.

NJ Rules: In NJ it is valid to use the REF*1P*SNP at this time.

	TEI		Tax Exemption Percentage (AMT*DP) Invalid		

TEI: This is used to reject an invalid percentage, such as greater than 100%. It will not be used if the ESP tax exemption percentage is different than the LDC tax exemption percentage.

	UND		Cannot identify ESP		
	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.

Historical Usage (HU) Rejection Codes:

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

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

	008		Account exists but is not active		
	A13		Other		

A13: REF03 Required. Send email to edewg@ls.eei.org each time A13 is used for a new purpose.

	A76		Account not found		

A76: This includes invalid account numbers as well as no account number being found.

	ABN		Duplicate request received		
	ACI		Action Code (ASI01) Invalid		
	ANL		Service provider not licensed to provide requested service		
	API		Required information missing (REF03 Required)		
	B33		Customer name is missing from the request		
	MTI		Maintenance Type Code (ASI02) Invalid		
	UND		Cannot identify ESP		
	SSR		Secondary Service Rejected		

SSR: Secondary Service not performed because Primary Service was rejected

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

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

Used to further describe the status reason code sent in REF02. Codes "A13" and "API" require text explanation in this element.

Historical Usage (HI) Rejection Codes:

Must Use	REF02	127	Reference Identification		X	AN 1/30

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

008	Account exists but is not active	
A13	Other	
	REF03 Required. Send email to 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	
ANL	Service provider not licensed to provide requested service	
API	Required information missing (REF03 Required)	
B33	Customer name is missing from the request	
MTI	Maintenance Type Code (ASI02) Invalid	
UND	Cannot identify ESP	
SSR	Secondary Service Rejected	
	Secondary Service not performed because Primary Service was rejected	

Optional	REF03	352	Description		X	AN 1/80

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

Used to further describe the status reason code sent in REF02. Codes "A13" and "API" require text explanation in this element.

Summary Interval (SI) Rejection Codes

Must Use	REF02	127	Reference Identification		X	AN 1/30

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

NIA	Not Interval Account	

Optional	REF03	352	Description		X	AN 1/80

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

Used to further describe the rejection reason code sent in REF02. Codes "A13" and "API" require text explanation in this element.

Segment:	**REF** Reference Identification (1P=Status 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 primarily to convey status reason codes in response to a Request. The status reason codes are conveyed in this segment rather than in the ASI03 to allow for multiple status reasons. A Status Reason code is different than a Rejection Reason code in that it is used to give additional information to the receiving party (an FYI). For example, if a request for Historical Usage is sent and the transaction is valid, but historical usage is not available for that customer, the transaction is accepted and a status reason code is provided to explain that the historical usage would not be sent. Generally, if a transaction is rejected, the sender is expected to follow up and resubmit; whereas if a transaction is accepted with a status reason code, the sender is not expected to take any further action.
PA Use:	Request: Not Used Accept Response: Required when status information must be conveyed. Reject Response: Required when status information must be conveyed.
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Request: Required if ESP requests drop reversal or reinstatement Accept Response: Same as PA Reject Response: Same as PA See General Notes section for how each Maryland utility handles requests for Historical data for an interval account.
Example:	REF*1P*A13*ADDITIONAL REASON TEXT HERE REF*1P*HUU*HISTORICAL USAGE UNAVAILABLE REF*1P*HUR*HISTORICAL USAGE NOT RELEASED

Data Element Summary

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

Code qualifying the Reference Identification

1P   Accessorial Status Code

Used in the instance where the 814 Request is accepted, but additional status information must be provided; e.g. code W09, special off-cycle meter read cannot be performed.

Rules for Status Reason Codes

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

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

PA Listserver: edewg@ls.eei.org
NJ Listserver: njbpu@ls.eei.org

Generation Services (CE) Status Codes:

Must Use	REF02	127	Reference Identification		X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			A13	Other		
				REF03 Required. Send email to edewg@ls.eei.org each time A13 is used for a new purpose.		
			B30	Currently Enrolled		
				Used to indicate that the customer is already enrolled with the ESP that is requesting enrollment. The transaction is treated as an inquiry.		
			EB1	Enrollment from active or pending supplier		
				Used by original active or pending supplier to have transaction treated a reversal of a drop. [MD Only]		
			EB2	Enrollment from Incumbent supplier		
				Used by incumbent supplier to have incumbent supplier re-instated. [MD 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. Code "A13" requires a text explanation in this element.			

Historical Usage (HU, HI) Status Codes:

Must Use	REF02	127	Reference Identification		X	AN 1/30

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

A13	Other	
	REF03 Required. Send email to edewg@ls.eei.org each time A13 is used for a new purpose.	
HIA	Historical Interval Usage Available	
	PA – only used on HI response when Historical Interval usage is available on account when HU was requested by EGS MD – sent when at least one meter on account is interval	
HIU	Historical Interval Usage Unavailable	
	PA – only used on HI response MD – sent when no meters on account are interval	
HUR	Historical Usage Not Released	
HUU	Historical Usage Unavailable	
SNP	Service Not Provided	

Optional	REF03	352	Description		X	AN 1/80

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

Used to further describe the status reason code sent in REF02. Code "A13" requires a text explanation in this element.

Summary Interval (SI) Status Codes

Must Use	REF02	127	Reference Identification		X	AN 1/30

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

A13	Other	
	REF03 Required. Send email to edewg@ls.eei.org each time A13 is used for a new purpose.	
A84	Invalid Relationship	
	This will be used when the requestor is not the supplier of record	
SNP	Service Not Provided	
UMA	Unmetered Account or non-Interval Account	

Optional	REF03	352	Description		X	AN 1/80

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

Used to further describe the status reason code sent in REF02. Code "A13" requires a text explanation in this element.

Segment:	**REF** Reference Identification (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:	Must exclude punctuation (spaces, dashes, etc.). Significant leading and trailing zeros must be included.	
PA Use:	Request:	Optional
	Accept Response:	Required if it was provided on the request.
	Reject Response:	Required if it was provided on the request
NJ Use:	Request:	Optional
	Accept Response:	Conditional (See **)
	Reject Response:	Conditional (See **)
	**Note: In New Jersey, Atlantic City Electric, JCP&L and PSE&G will store ESP account number and will be required to send it in response if it was provided on the request. Rockland Electric will not be storing ESP account number, and will never send it on a response transaction. Atlantic City Electric will only be storing 20 characters.	
DE Use:	Request:	Optional
	Accept Response:	Required if it was provided on the request. Delmarva will only be storing 20 characters.
	Reject Response:	Required if it was provided on the request. Delmarva will only be storing 20 characters.
MD Use:	Request:	Optional
	Accept Response:	Required if it was provided on the request. Delmarva will only be storing 20 characters, all other utilities 30 characters.
	Reject Response:	Required if it was provided on the request.
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.	
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 **Note:** RECO only uses REF03 value of "U" for unmetered usage. Separate enrollment requests must be made for metered/unmetered usage for RECO. No other EDC uses REF03.
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		
Optional	**REF03**	**352**	**Description**	**X**	**AN 1/80**
			A free-form description to clarify the related data elements and their content		
			U Unmetered		

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:	Not Used	
	Accept Response:	Required if the account number has changed in the last 60 days.	
	Reject Response:	Not Used	
NJ Use:	Same as PA		
DE Use:	Not Used – Delmarva will not change LDC account number.		
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 (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: Not Used
	CE Accept Response: Required for PPL EU
	All other Accept Responses: Not Used
	Reject Response: Not Used
NJ Use:	Not used in New Jersey
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: Not Used
	CE Accept Response: Required
	All other Accept Responses: Not Used
	Reject 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: Not Used
	CE Accept Response: Required
	All other Accept Responses: Not Used
	Reject Response: Not Used
DE Use:	Same as NJ.
MD Use:	Same as NJ
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.

	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 (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:	CE Request: Required
	CE Accept Response: Required
	CE Reject Response: Return on the response if it was provided on the request
	All other Requests: Not Used
	All other Accept Responses: Not Used
	All other Reject Responses: Not Used
NJ Use:	Same as PA. However, only valid options are LDC and DUAL.
DE Use:	Same as PA
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 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:	CE Request:	Required
	CE Accept Response:	Required
	CE Reject Response:	Return on the response if it was provided on the request
	All other Requests:	Not Used
	All other Accept Responses:	Not Used
	All other Reject Responses:	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	**Calculates**		**Billing Party**	**Calc. Party**
Customer	**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: Not Used
	CE Accept Response: Required for PECO
	Optional for others
	All other Accept Responses: Not Used
	Reject 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		
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: Not Used
	CE Accept Response: Required if PJM Participant
	All other Accept Responses: Not Used
	Reject Response: Not Used
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Example:	REF*SPL** REF*SPL**PEPZONE

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). This represents the Wholesale Settlement Bus.		
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:

- Every utility must provide the ability for a supplier to receive interval data at either the summary level or the detail level. The default, except for PPL EU and PECO, is that an ESP will receive interval data at the summary and the detail level. If an ESP wants interval data at both the summary and the detail level the ESP does not need to take any action.
    - For PPL EU, because nearly all customers have interval meters, the default is for the ESP to receive summary data only. If an ESP wants interval data at both the summary and detail levels, the ESP must submit "SI" and include the REF*17*DETAIL segment.
    - For PECO, the default is also for the ESP to receive summary data only. If an ESP wants interval data at the detail level, the ESP must submit "SI" and specify account-level versus meter-level detail via the REF*17 segment. Please note that, unlike PPL EU, PECO does not provide interval data for billing at both the summary and detail levels; The ESP may receive either summary or detail, but not both

- If an ESP wants to receive interval data at only the summary level, the ESP must:
    - Contact the LDC to determine if the LDC supports summary level data by account or by ESP
    - If the LDC supports summary level interval data by account, the ESP must submit "SI" in the LIN05 to indicate that only summary level interval data is requested for the account.
    - If the LDC supports summary level interval data by ESP, the "SI" in the LIN05 is not used. The ESP must call the supplier interface group at the LDC to request summary level interval data. The LDC will then return summary level interval data for ALL accounts for that ESP.
    - For PPL EU, the default is summary. If an ESP wants interval data at both the summary and detail levels, the ESP must submit "SI" and include the REF*17*DETAIL segment.
- As stated above, PECO does not provide interval data for billing at both the summary and detail levels; The ESP may receive either summary or detail, but not both.

Responses to a Summary Interval Request (LIN05=SI):
- If the utility does not provide this capability at the account level, they will accept the request, but respond with a Status Reason code (1P) of SNP for "Service Not Provided".
- If the utility provides this service at the account level, but the account is not an interval account, they will accept the request, but respond with a Status Reason code (1P) of UMA for "Unmetered or non-interval account".
- If the utility provides this service at the account level, and the account is an interval account, the utility will accept this request, and in their response send a *REF*17*SUMMARY*.

SI Request:	Required by PPL EU and PECO in the LIN loop where LIN05=SI if the ESP wants to receive Interval Details.

	SI Accept Response:	Required if service was requested and will be provided.
	SI Reject Response	Not Used
	All other Requests:	Not Used
	All other Accept Responses:	Not Used
	All other Reject Responses:	Not Used
NJ Use:	Optional for JCP&L and Atlantic City Electric	
DE Use:	Not Used	
MD Use:	Same as PA as far as 814 Enrollment transaction. Refer to General Notes section for each utility's plans to provide interval details.	
Example:	REF*17*SUMMARY	

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 ESP will receive summary only information, or detail and associated summary information for this interval account.

	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 17, valid values for REF02 are:

    SUMMARY – Metering party will send only summary level data for this interval account.

    DETAIL – Metering party will send interval details for this 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)	

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 PPLEU: supports First Energy & PECO: must support NLT 6/19/2013 Duquesne: will support NLT 1/31/2014
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Not Used
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

Segment:	**DTM** Date/Time Reference (129=Contract 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:	CE Request: Required
	CE Accept Response: Required as provided on the request.
	All other Accept Responses: Not Used
	Reject Response: Returned on the response if provided on the request
	NOTE: PA EDCs are permitted to reject the 814E if the DTM129 includes a future date/time.
NJ Use:	Same as PA
	PSE&G expects to receive only eastern time.
DE Use:	Same as PA
MD Use:	Same as PA
Example:	DTM*129*19990411*1430*ET

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
    129   Customer Contract Effective

> The date/time the customer agreed to obtain service from the Service Provider. Specifically the date/time the customer signed the contract or signed up online to begin service with the supplier. This should not be the system timestamp of the EDI 814 enrollment transaction

Must Use	DTM02	373	**Date**	**X DT 8/8**

Date expressed as CCYYMMDD

Must Use	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

Must Use	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:		
PA Use:	Request:	Not Used
	CE Accept Response:	Required
	All other Accept Responses:	Not Used
	Reject 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:	**DTM** Date/Time Reference (MRR=Special Meter Read 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:		
PA Use:	Not Used	
NJ Use:	Not Used Day 1 by any LDC	
DE Use:	Not Used Day 1	
MD Use:	Not Used Day 1 by any LDC	
Example:	DTM*MRR*20000115	

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

MRR	Special Meter Read Date

Date that the ESP would like to have the meter read and the customer switched to their service.

	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:	**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:	CE Request:	Required - Must be 100% , or enrollment will be rejected
	CE Accept Response:	Required
	CE Reject Response:	Return on response if it was provided on the request
	Other Requests:	Not Used
	Other Responses:	Not Used
NJ Use:	CE Request:	Must be 100% , or enrollment will be rejected
	CE Accept Response:	Return on response if it was provided on the request
	CE Reject Response:	Return on response if it was provided on the request
	Other Requests:	Not Used
	Other Accept Responses:	Not Used
	Other Reject Responses:	Not Used
	NJ Note: For RECO only – allow this field to have value other than 100%. When this is less than 100%, RECO will apply this percentage to the customers usage when calculating a rate ready bill. **Note:** Even though a customer may elect less than 100% participation, a customer may still only have one GPM at a time. If a second GPM enrollment is received, the original GPM will be dropped	
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.

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: Not Used
	CE Accept Response: Required – will always reflect 100%
	All other Accept Responses: Not Used
	Reject Response: Not Used
NJ Use:	Same as PA. However, CE Accept Response will always reflect 100%.
DE Use:	Same as PA. However, CE Accept Response will always reflect 100%.
MD Use:	Same as PA. However, CE Accept Response 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 Use:	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 rectify directly with the customer. CE Request: Required if LDC is calculating the ESP portion of the bill Accept Response: Optional CE Reject Response: Return on response if it was provided on the request All other Reject Responses: Not Used
NJ Use:	Same as PA **Note:** For Rate Ready, since rate must include taxes, ESP should always set this to 100% tax exempt in NJ.
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.

	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 (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)
	CE Request: Required if LDC is calculating ESP portion of the Bill Accept Response: Not Used CE Reject Response: Return on response if it was provided on the request All other Reject Responses: 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.	
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:	$\mathbf{AMT}$ 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 on an enrollment response to indicate this account has some air conditioners that are part of the load management program. **Note:** If account does not have any air conditioners on the load management program, this segment will not be sent.
	All Requests: Not Used CE Accept Response: Required if there are any air conditioners on the account that are part of the load management program All other Accept Responses: Not Used All Reject Responses: Not Used
Examples:	AMT*5J*2 (Indicates there are two air conditioners on account in load management program)

Data Element Summary

	Ref. 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 on an enrollment response to indicate this account has some water heaters that are part of the load management program. **Note:** If account does not have any water heaters on the load management program, this segment will not be sent.
	All Requests: Not Used CE Accept Response: Required if there are any water heaters on the account that are part of the load management program All other Accept Responses: Not Used All Reject Responses: Not Used
Examples:	AMT*L0*1 (Indicates there is one water heater on account in load management program)

Data Element Summary

	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:	$\large AMT$ **Monetary Amount (KC=Peak Load Contribution**
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:	Not Used
	CE Accept Response:	Required for PJM Participants only
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
NJ Use:	Request:	Not Used
	CE Accept Response:	Required
	All other Accept Responses:	Not Used
	Reject 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 Contribution (a.k.a. Load Responsibility or PLC): Peak load contributions provided to PJM for Installed Capacity calculation (coincident with PJM peak).		
Must Use	AMT02	782	**Monetary Amount**	M	R 1/18
			Monetary amount		
			Peak Load Contribution		

Segment:	$\mathbf{AMT}$ **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: Not Used
	CE Accept Response: Required for PJM Participants only
	All other Accept Responses: Not Used
	Reject Response: Not Used
NJ Use:	Same as PA
	NJ Note: PSE&G sends Capacity 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 (NSPL): 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: AMT Monetary Amount (LD=Number of Months for Usage/Load)
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:	Request:	Not Used
	CE Accept Response:	Required if there is history on the account, otherwise not used.
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
NJ Use:	Same as PA	
	Note: Not provided by PSE&G, provided by the other EDCs.	
DE Use:	Same as PA	
MD Use:	Same as PA	
Example:	AMT*LD*12	

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		
			LD	Incremental	
				Number of Months over which the Total kWh (AMT*TA) and/or Peak Demand (AMT*MA) are calculated.	
Must Use	**AMT02**	**782**	**Monetary Amount**		**M R 1/18**
			Monetary amount		
			Number of Months		

Segment:	AMT **Monetary Amount (MA=Peak Demand)**
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:	Request:	Not Used
	CE Accept Response:	Required if the meter measures demand and there is history on the account, otherwise not used.
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
NJ Use:	Same as PA	
	Note: Not provided by PSE&G, provided by the other EDCs.	
DE Use:	Same as PA	
MD Use:	Same as PA	
Example:	AMT*MA*12345678.999	

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

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

PA Use:	Not Used	
NJ Use:	Request:	Required in Rockland Electric territory when LDC is calculating ESP charges. Not valid for other LDCs. Rate will be applied per kWh
	Accept Response:	Return on the response if it was provided on the request
	Reject Response:	Return on the response if it was provided on the request
DE Use:	Not Used	
MD Use:	Not Used	
Example:	AMT*RJ*.0345	

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
RJ   Rate Amount
ESP Rate for the customer displayed as a monetary amount.

Must Use	AMT02	782	Monetary Amount	M R 1/18

Monetary amount
ESP Rate for the customer. Must appear as a monetary amount. For example, to charge 3.45 cents per kWh, you must format the segment as AMT*RJ*.0345

Segment:	AMT **Monetary Amount (TA=Total kwh)**
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:	Request:	Not Used
	CE Accept Response:	Required if there is history on the account; otherwise, not used.
	All other Accept Responses:	Not Used
	Reject Response:	Not Used
NJ Use:	Same as PA	
	Note: Not provided by PSE&G, provided by the other EDCs.	
DE Use:	Same as PA	
MD Use:	Same as PA	
Example:	AMT*TA*12345678.912	

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

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 loop is used to convey meter level information.	

PA Use:	CE Request:	Required if enrolling LDC Rate Ready (NM109 must be **ALL**)
	All other Requests:	Not Used
	CE Accept Response:	Required (NM109=**ALL** is not valid on the Response transaction)
	All other Accept Responses:	Not Used
	Reject Response:	Return on the response if it was provided in the request.
NJ Use:	Same as PA. However, on a CE Request, this loop will only be used in JCP&L territory for Rate Ready. It will not be used in Rockland Electric territory. Rockland Electric will receive the rate from the ESP in LIN loop AMT*RJ segment.	
DE Use:	Same as PA	
MD Use:	Same as PA	
Examples:	NM1*MQ*3******32*1234568MG	
	NM1*MQ*3******32*UNMETERED	
	NM1*MQ*3******32*ALL	

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
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		
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 Response transaction		
			ALL – for ALL meters 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:	Not Used
	CE Accept Response:	Required for First Energy Companies; Optional for others
	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:	Not Used
	CE Accept Response:	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.
	All other Accept Responses:	Not Used
	Reject 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		
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:	Not Used
	CE Accept Response:	Required for each meter that is used for billing purposes. This segment must also be sent when account has UNMETERED services available for generation service.
	All other Accept Responses:	Not Used
	Reject 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:	Not Used
	CE Accept Response:	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.
	All other Accept Responses:	Not Used
	Reject 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.
	CE Request: Required if the LDC is calculating the ESP charges (Rate Ready)
	All other Requests: Not Used
	CE Accept Response: Required if the LDC is calculating the ESP charges (Rate Ready). This segment must also be sent when account has UNMETERED services available for generation service (Rate Ready).
	All other Accept Responses: Not Used
	Reject Response: Return on response if it was provided on the request
NJ Use:	Same as PA. However, on a CE Request, this segment will only be used in JCP&L territory for Rate Ready. It will not be used in Rockland Electric territory. Rockland Electric will receive the rate from the ESP in LIN loop AMT*RJ segment.
DE Use:	Same as PA
	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:	Not Used
	CE Accept Response:	Required for First Energy Companies; Optional for others
	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	

	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

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:	Not Used
	CE Accept Response:	Required for each meter that is used for billing purposes. This segment is optional in the NM1 Loop for UNMETERED services.
	All other Accept Responses:	Not Used
	Reject 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 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: Not Used
	CE Accept Response: Required for each meter that is used for billing purposes. This segment will not be provided in the NM1 loop for UNMETERED services.
	All other Accept Responses: Not Used
	Reject 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. "COMBO" is used for a meter that records more than one measurement. 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
PEPCO MD Use: As of 4/1/12, will send '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 <u>NOT</u> 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:	Not Used
	CE Accept Response:	Required for each meter type for each meter that is used for billing purposes. This segment will **not** be provided in the NM1 loop for UNMETERED services.
	All other Accept Responses:	Not Used
	Reject 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

	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 for 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: Not Used
	CE Accept Response: Required for each meter type for each meter that is used for billing purposes that has dials. This segment will **not** be provided in the NM1 loop for UNMETERED services.
	All other Accept Responses: Not Used
	Reject 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 for 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: Not Used
	CE Accept Response: 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.
	All other Accept Responses: Not Used
	Reject Response: Not Used
NJ Use:	Same as PA **Note:** Rockland is evaluating whether they can accommodate sending of this field.
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:	Same as PA		
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 Enrollment Examples

Example: Enrollment Request for Generation Services

Rate Ready: Request is for Generation services only

BGN*13*199904011956531*19990401	Request, unique transaction identification number, transaction creation date
N1*8S*LDC COMPANY*1*007909411**40	LDC Name, LDC DUNS information, receiver
N1*SJ*ESP COMPANY*9*007909422ESP1**41	ESP Name, ESP DUNS information, submitter
N1*8R*CUSTOMER NAME	Customer Name
LIN*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*BLT*LDC	LDC consolidates the LDC and ESP charges
REF*PC*LDC	LDC calculates ESP charges (Rate Ready)
DTM*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
AMT*7N*1	Participating interest:
AMT*DP*1	Tax Exemption Percent
NM1*MQ*3******32*ALL	Beginning of Meter Loop for Rate Ready
REF*RB*0300	ESP Rate code

Maryland Rate Ready: Request is for Generation services only

BGN*13*199904011956532*19990401	Request, unique transaction identification number, transaction creation date
N1*8S*LDC COMPANY*1*007909411**40	LDC Name, LDC DUNS information, receiver
N1*SJ*ESP COMPANY*9*007909422ESP1**41	ESP Name, ESP DUNS information, submitter
N1*8R*CUSTOMER NAME	Customer Name
LIN*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*BLT*LDC	LDC consolidates the LDC and ESP charges
REF*PC*LDC	LDC calculates ESP charges (Rate Ready)
DTM*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
AMT*7N*1	Participating interest:
AMT*F7*1	State Sales Tax Exemption Percent
NM1*MQ*3******32*ALL	Beginning of Meter Loop for Rate Ready
REF*RB*0300	ESP Rate code

Bill Ready: Request is for Generation services only

BGN*13*199904011956531*19990401	Request, unique transaction identification number, transaction creation date
N1*8S*LDC COMPANY*1*007909411**40	LDC Name, LDC DUNS information, receiver
N1*SJ*ESP COMPANY*9*007909422ESP1**41	ESP Name, ESP DUNS information, submitter
N1*8R*CUSTOMER NAME	Customer Name
LIN*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*BLT*LDC	LDC consolidates the LDC and ESP charges
REF*PC*DUAL	Each party calculates its own charges (Bill Ready)
DTM*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
AMT*7N*1	Participating interest:

Dual Billing: Request is for Generation services only

BGN*13*199904011956566*19990401	Request, unique transaction identification number, transaction creation date
N1*8S*LDC COMPANY*1*007909411**40	LDC Name, LDC DUNS information, receiver
N1*SJ*ESP COMPANY*9*007909422ESP1**41	ESP Name, ESP DUNS information, submitter
N1*8R*CUSTOMER NAME	Customer Name
LIN*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*7*021	Request for addition
REF*11*2348400590	ESP Account Number
REF*12*293839201	LDC Account Number
REF*BLT*DUAL	Each party renders their own bill
REF*PC*DUAL	Each party calculates their own charges)
DTM*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
AMT*7N*1	Participating interest

Example: CE Enrollment Response – Enrollment Accepted

Rate Ready: Request is for Generation services only. Account has 2 meters. Meter 123857G measures kWh and kW (on and off peak), Meter 218737S measures kWh (totalized only).

BGN*11*199904020830531*19990402***199904011956531	Response, unique transaction identification number, transaction creation date and original request transaction identification number
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*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*WQ*021	Accept Enrollment 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*NR*N	Budget Billing Status
REF*SPL**PJM192478939901287748	Indicates PJM LMP Bus Number
DTM*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
DTM*150*19990425	Estimated Start date
AMT*7N*1	Participating interest
AMT*QY*1	Eligible Load Percentage
AMT*DP*1	Tax Exemption Percent
AMT*5J*2	Air conditioners in load cycling program
AMT*L0*1	Water Heaters in load cycling program
AMT*KC*12.8	Peak Load Capacity
AMT*KZ*14.1	Network Service Peak Load
AMT*LD*12	Number of months over which the total kWh and/or Peak Demand are calculated
AMT*MA*50	Peak Demand
AMT*TA*125500	Total kWh
NM1*MQ*3*****32*123857G	Meter 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*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: Response to request is for Generation services only. Account has 2 meters. Meter 123857G measures kWh and kW (on and off peak), Meter 218737S measures kWh (totalized only).

BGN*11*199904020830531*19990402***199904011956531	Response, unique transaction identification number, transaction creation date and original request transaction identification number
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*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*WQ*021	Accept Enrollment request
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*4N*N	LDC Payment Arrangement Status
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*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
DTM*150*19990425	Estimated Start date
AMT*7N*1	Participating interest
AMT*QY*1	Eligible Load Percentage
AMT*5J*2	Air conditioners in load cycling program
AMT*L0*1	Water Heaters in load cycling program
AMT*KC*12.8	Peak Load Capacity
AMT*KZ*14.1	Network Service Peak Load
AMT*LD*12	Number of months over which the total kWh and/or Peak Demand are calculated
AMT*MA*50	Peak Demand
AMT*TA*125500	Total kWh
NM1*MQ*3*****32*123857G	Meter 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*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

Dual Billing: Request is for Generation services only. Account has 1 meter and unmetered services. Meter 23487992G measures kWh (totalized only).

BGN*11*199904020830561*19990402***199904011956566	Response, unique transaction identification number, transaction creation date
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
N3*123 N MAIN ST*FLR 13	Service address
N4*ANYTOWN*PA*18111**CO*LEHIGH	City/State/Zip for Service Address. Also County for service address where required to send
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 Contact Name and telephone number
LIN*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*WQ*021	Accept Enrollment request
REF*11*2348400590	ESP Account Number
REF*12*293839201	LDC Account Number
REF*4N*N	LDC Payment Arrangement Status
REF*BF*18	LDC Billing Cycle
REF*BLT*DUAL	Each party renders their own bill
REF*PC*DUAL	Each party calculates their own charges)
REF*NR*N	Budget Billing Status
REF*SPL**PJM192478939901287748	Indicates PJM LMP Bus Number
DTM*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider

DTM*150*19990425	Estimated Start date
AMT*7N*1	Participating interest
AMT*QY*1	Eligible Load Percentage
AMT*5J*2	Air conditioners in load cycling program
AMT*L0*1	Water Heaters in load cycling program
AMT*KC*12.8	Peak Load Capacity
AMT*KZ*14.1	Network Service Peak Load
AMT*LD*12	Number of months over which the total kWh and/or Peak Demand are calculated
AMT*TA*8000	Total kWh
NM1*MQ*3******32*23487992G	Meter number
REF*LO*RESTH	LDC Load Profile
REF*NH*RES	LDC Rate class
REF*PR*RT	LDC Rate Subclass
REF*TZ*18	LDC Meter Cycle
REF*MT*KHMON	Meter Type
REF*4P*1*KHMON	Meter constant on the kWh register
REF*IX*6.0*KHMON	Number of dials/digits
REF*TU*51*KHMON	Totalized metering information sent on the 867
NM1*MQ*3******32*UNMETERED	Indicates that there is unmetered service associated with this account
REF*LO*RESTH	LDC Load Profile
REF*NH*RES	LDC Rate class
REF*PR*RT	LDC Rate Subclass
REF*TU*51*KHMON	Totalized metering information sent on the 867

Example: CE Enrollment Response – Enrollment Rejected

<u>Rate Ready:</u> Request is for Generation services only. Enrollment was rejected due to an invalid LDC Account Number.

BGN*11*199904020830538*19990402***19990401195 6531	Request, unique transaction identification number, transaction creation date, original Request transaction number
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	Customer Name
LIN*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*U*021	**Reject** Enrollment request
REF*7G*A76*ACCOUNT NOT FOUND	Rejection Reason code.
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number

<u>Bill Ready:</u> Request is for Generation services only. Enrollment was rejected due to an invalid LDC Account Number.

BGN*11*199904020830538*19990402***19990401195 6531	Request, unique transaction identification number, transaction creation date, original Request transaction number
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	Customer Name
LIN*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*U*021	**Reject** Enrollment request
REF*7G*A76*ACCOUNT NOT FOUND	Rejection Reason code.
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number

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

BGN*11*199904020830568*19990402***199904011956566	Response, unique transaction identification number, transaction creation date
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	Customer Name
LIN*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*U*021	**Reject** Enrollment request
REF*7G*A76*ACCOUNT NOT FOUND	Rejection Reason code
REF*11*2348400590	ESP Account Number
REF*12*293839201	LDC Account Number

Example: Historical Usage Request

<u>Rate Ready & Bill Ready:</u> This Request was for Historical Usage only.

BGN*13*199904011956544*19990401	Request, unique transaction identification number, transaction creation date
N1*8S*LDC COMPANY*1*007909411**40	LDC Name, LDC DUNS information, receiver
N1*SJ*ESP COMPANY*9*007909422ESP1**41	ESP Name, ESP DUNS information, submitter
N1*8R*CUSTOMER NAME	Customer Name
LIN*HU1999123100004*SH*EL*SH*HU	Unique transaction reference number, request for electric Historical Usage
ASI*7*029	Request for inquiry
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number

Example: Historical Usage Response – Accepted

<u>Rate Ready & Bill Ready:</u> Request is for Historical Usage only. The Request was Accepted, the actual historical data will be sent on an 867 HU transaction.

BGN*11*199904011956544*19990401	Response, unique transaction identification number, transaction creation date
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	Customer Name
LIN*HU1999123100004*SH*EL*SH*HU	Unique transaction reference number, request for electric Historical Usage
ASI*WQ*029	Request for inquiry was **Accepted**
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number

Example: Historical Usage Response – Rejected

<u>Rate Ready & Bill Ready:</u> Request is for Historical Usage only. The Request was Rejected because account is inactive.

BGN*11*199904011956544*19990401	Response, unique transaction identification number, transaction creation date
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	Customer Name
LIN*HU1999123100004*SH*EL*SH*HU	Unique transaction reference number, request for electric Historical Usage
ASI*U*029	Request for inquiry was **Rejected**
REF*7G*008*ACCOUNT EXISTS BUT NOT ACTIVE	Rejection Reason code
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number

Example: Historical Usage Response – Historical Usage Unavailable

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

BGN*11*199904011956544*19990401	Response, unique transaction identification number, transaction creation date
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	Customer Name
LIN*HU1999123100004*SH*EL*SH*HU	Unique transaction reference number, request for electric Historical Usage
ASI*WQ*029	Request for inquiry was **Accepted**
REF*1P*HUU*HISTORICAL USAGE UNAVAILABLE	Status Reason code
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number

Example: Historical Usage Request (Maryland)

Rate Ready & Bill Ready: This Request was for Historical Usage only.

BGN*13*199904011956544*19990401	Request, unique transaction identification number, transaction creation date
N1*8S*LDC COMPANY*1*007909411**40	LDC Name, LDC DUNS information, receiver
N1*SJ*ESP COMPANY*9*007909422ESP1**41	ESP Name, ESP DUNS information, submitter
N1*8R*CUSTOMER NAME	Customer Name
LIN*HU1999123100004*SH*EL*SH*HU	Unique transaction reference number, request for electric Historical Usage
ASI*7*029	Request for inquiry
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number

Example: Historical Usage Response – Accepted (Maryland)

Rate Ready & Bill Ready: Request is for Historical Usage only. The Request was Accepted, and provides the customer address and billing address information. The actual historical data will be sent on an 867 HU transaction.

BGN*11*199904011956544*19990401	Response, unique transaction identification number, transaction creation date
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	Customer Name
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
LIN*HU1999123100004*SH*EL*SH*HU	Unique transaction reference number, request for electric Historical Usage
ASI*WQ*029	Request for inquiry was **Accepted**
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number

Example: Historical Usage Response – Rejected (Maryland)

Rate Ready & Bill Ready: Request is for Historical Usage only. The Request was Rejected because account is inactive.

BGN*11*199904011956544*19990401	Response, unique transaction identification number, transaction creation date
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	Customer Name
LIN*HU1999123100004*SH*EL*SH*HU	Unique transaction reference number, request for electric Historical Usage
ASI*U*029	Request for inquiry was **Rejected**
REF*7G*008*ACCOUNT EXISTS BUT NOT ACTIVE	Rejection Reason code
REF*11*2348400586	ESP Account Number

REF*12*293839200	LDC Account Number

Example: Historical Usage Response – Historical Usage Unavailable (Maryland)

<u>Rate Ready & Bill Ready:</u> Request is for Historical Usage only. No Historical Usage is available. The Request is Accepted, but a status code should be sent indicating that historical usage is not available.

BGN*11*199904011956544*19990401	Response, unique transaction identification number, transaction creation date
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	Customer Name
LIN*HU1999123100004*SH*EL*SH*HU	Unique transaction reference number, request for electric Historical Usage
ASI*WQ*029	Request for inquiry was **Accepted**
REF*1P*HUU*HISTORICAL USAGE UNAVAILABLE	Status Reason code
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number

Example: Summary Information for Interval Account Request

Rate Ready & Bill Ready: This Request is to receive summary information only for an interval account. This must be sent as a secondary service with a generation enrollment or after a customer has been successfully enrolled with an ESP.

BGN*13*199904011956588*19990401	Request, unique transaction identification number, transaction creation date
N1*8S*LDC COMPANY*1*007909411**40	LDC Name, LDC DUNS information, receiver
N1*SJ*ESP COMPANY*9*007909422ESP1**41	ESP Name, ESP DUNS information, submitter
N1*8R*CUSTOMER NAME	Customer Name
LIN*SI1999123100007*SH*EL*SH*SI	Unique transaction reference number, request for electric summary only interval data
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number

Example: Summary Information for Interval Account Response – Accepted

Rate Ready & Bill Ready: Request is to receive summary information only for an interval account. The Request was Accepted.

BGN*11*199904011956588*19990401	Response, unique transaction identification number, transaction creation date
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	Customer Name
LIN*SI1999123100007*SH*EL*SH*SI	Unique transaction reference number, request for electric Meter Information
ASI*WQ*021	Request for inquiry was **Accepted**
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*17*SUMMARY	Summary/Interval Indicator

Example: Summary Information for Interval Account Response – Rejected

Rate Ready & Bill Ready: Request is to receive summary information only for an interval account. The Request was Rejected because account is inactive.

BGN*11*199904011956588*19990401	Response, unique transaction identification number, transaction creation date
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	Customer Name
LIN*SI1999123100007*SH*EL*SH*SI	Unique transaction reference number, request for electric Meter Information
ASI*U*021	Request for inquiry was **Rejected**
REF*7G*008*ACCOUNT EXISTS BUT IS NOT ACTIVE	Rejection Reason code
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number

Example: Summary Information for Interval Account Response – Service Not Provided

<u>**Rate Ready & Bill Ready:**</u> Request is to receive summary information only for an interval account. The Request is Accepted, but a status code should be sent indicating that the utility does not provide this service at the account level.

BGN*11*199904011956588*19990401	Response, unique transaction identification number, transaction creation date
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	Customer Name
LIN*SI1999123100007*SH*EL*SH*SI	Unique transaction reference number, request for electric Meter Information
ASI*WQ*021	Request for inquiry was **Accepted**
REF*1P*SNP*SERVICE NOT PROVIDED	Status Reason code
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number

Example: Enrollment Request for Generation Services, Historical Usage, Meter Information, Summary Interval and a Special Meter Read – Rate Ready

Rate Ready:

BGN*13*199904011956531*19990401	Request, unique transaction identification number, transaction creation date
N1*8S*LDC COMPANY*1*007909411**40	LDC Name, LDC DUNS information, receiver
N1*SJ*ESP COMPANY*9*007909422ESP1**41	ESP Name, ESP DUNS information, submitter
N1*8R*CUSTOMER NAME	Customer Name
LIN*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, request for electric Generation Service
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*BLT*LDC	LDC consolidates the LDC and ESP charges
REF*PC*LDC	LDC calculates ESP charges (Rate Ready)
DTM*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
AMT*7N*1	Participating interest
AMT*DP*1	Tax Exemption Percent
NM1*MQ*3******32*ALL	Beginning of Meter Loop for Rate Ready
REF*RB*0300	ESP Rate code
LIN*HU1999123100004*SH*EL*SH*HU	Unique transaction reference number, request for electric Historical Usage
ASI*7*029	Request for inquiry
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
LIN*SI1999123100007*SH*EL*SH*SI	Unique transaction reference number, request for electric Summary Only Information for an Interval Account
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*17*SUMMARY	Summary level only data will be sent for this account
LIN*SR1999123100005*SH*EL*SH*SR	Unique transaction reference number, request for electric Special Meter Read
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
DTM*MRR*20000110	Requested special meter read date

Example: Enrollment Request for Generation Services, Historical Usage, Meter Information, Summary Interval and a Special Meter Read – Bill Ready

Bill Ready:

BGN*13*199904011956531*19990401	Request, unique transaction identification number, transaction creation date
N1*8S*LDC COMPANY*1*007909411**40	LDC Name, LDC DUNS information, receiver
N1*SJ*ESP COMPANY*9*007909422ESP1**41	ESP Name, ESP DUNS information, submitter
N1*8R*CUSTOMER NAME	Customer Name
LIN*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, request for electric Generation Service
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*BLT*LDC	LDC consolidates the LDC and ESP charges
REF*PC*DUAL	Each party calculates its own charges (Bill Ready)
DTM*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
AMT*7N*1	Participating interest
LIN*HU1999123100004*SH*EL*SH*HU	Unique transaction reference number, request for electric Historical Usage
ASI*7*029	Request for inquiry
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
LIN*SI1999123100007*SH*EL*SH*SI	Unique transaction reference number, request for electric Summary Only Information for an Interval Account
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
LIN*SR1999123100005*SH*EL*SH*SR	Unique transaction reference number, request for electric Special Meter Read
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
DTM*MRR*20000110	Requested special meter read date

Example: Enrollment Response for Generation Services, Historical Usage, Meter Information, Summary Interval, and a Special Meter Read

Account has 2 meters. Meter 123857G measures kWh and kW (on and off peak), Meter 218737S measures kWh (totalized only). **Note:** All services have been accepted.

Rate Ready

BGN*11*199904020830531*19990402***199904011956531	Response, unique transaction identification number, transaction creation date
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
LIN*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*WQ*021	Accept Enrollment 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 (Rate Ready)
REF*NR*N	Budget Billing Status
REF*SPL**PJM192478939901287748	PJM LMP Bus Number
DTM*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
DTM*150*19990425	Estimated Start date
AMT*7N*1	Participating interest
AMT*QY*1	Eligible Load Percentage
AMT*KC*12.8	Peak Load Capacity
AMT*KZ*14.1	Network Service Peak Load
AMT*LD*12	Number of months over which the total kWh and/or Peak Demand are calculated
AMT*MA*50	Peak Demand
AMT*TA*125500	Total kWh
NM1*MQ*3******32*123857G	Meter 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*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
LIN*HU1999123100004*SH*EL*SH*HU	Unique transaction reference number, enrollment request for electric Historical Usage
ASI*WQ*029	Request for inquiry was **Accepted**
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
LIN*SI1999123100007*SH*EL*SH*SI	Unique transaction reference number, enrollment request for electric Summary Only Information for an Interval Account
ASI*WQ*021	Request for inquiry was **Accepted**
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*17*SUMMARY	Summary level only data will be sent for this interval account
LIN*SR1999123100005*SH*EL*SH*SR	Unique transaction reference number, enrollment request for electric special meter read
ASI*WQ*021	Request for addition was **Accepted**
REF*1P*W09*DO NOT PROVIDE THIS SERVICE	Status Reason Code
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
DTM*MRR*20000110	Special meter read date

Bill Ready

BGN*11*199904020830531*19990402***199904011956531	Response, unique transaction identification number, transaction creation date
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
LIN*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*WQ*021	Accept Enrollment request
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*4N*N	LDC Payment Arrangement Status
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	PJM LMP Bus Number
DTM*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
DTM*150*19990425	Estimated Start date
AMT*7N*1	Participating interest
AMT*QY*1	Eligible Load Percentage
AMT*KC*12.8	Peak Load Capacity
AMT*KZ*14.1	Network Service Peak Load
AMT*LD*12	Number of months over which the total kWh and/or Peak Demand are calculated
AMT*MA*50	Peak Demand
AMT*TA*125500	Total kWh
NM1*MQ*3******32*123857G	Meter 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*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
LIN*HU1999123100004*SH*EL*SH*HU	Unique transaction reference number, enrollment request for electric Historical Usage
ASI*WQ*029	Request for inquiry was **Accepted**
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
LIN*SI1999123100007*SH*EL*SH*SI	Unique transaction reference number, enrollment request for electric Summary Only Information for an Interval Account
ASI*WQ*021	Request for inquiry was **Accepted**
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*17*SUMMARY	Summary level only data will be sent for this interval account
LIN*SR1999123100005*SH*EL*SH*SR	Unique transaction reference number, enrollment request for electric special meter read
ASI*WQ*021	Request for addition was **Accepted**
REF*1P*W09*DO NOT PROVIDE THIS SERVICE	Status Reason Code
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
DTM*MRR*20000110	Special meter read date

Example: Enrollment Request for Renewable Energy Certificate Services

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	Request, unique transaction identification number, transaction creation date
N1*8S*LDC COMPANY*1*007909411**40	LDC Name, LDC DUNS information, receiver
N1*G7*RENEWABLE CO*9*007909422GPM1**41	Renewable Energy Provider Name and DUNS information, submitter
N1*8R*CUSTOMER NAME	Customer Name
LIN*CE1999123100002*SH*EL*SH*RC	Unique transaction reference number, enrollment request for renewable energy certificate services
ASI*7*021	Request for addition
REF*11*2348400587	Renewable Energy Provider Account Number
REF*12*293839201	LDC Account Number
…..	

Example: RC Enrollment Response – Enrollment Accepted

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*11*199904020830531*19990402***199904011956531	Response, unique transaction identification number, transaction creation date and original request transaction identification number
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
N3*123 N MAIN ST*FLR 13	Service address
N4*ANYTOWN*PA*18111**CO*LEHIGH	City/State/Zip and County for Service Address.
………..	
LIN*CE1999123100002*SH*EL*SH*RC	Unique transaction reference number, enrollment request for renewable energy certificate services
ASI*WQ*021	Accept Enrollment request
REF*11*2348400587	Renewable Energy Provider Account Number
REF*12*293839201	LDC Account Number
……….	

Example: Enrollment Request for Re-Enrollment – Drop sent in Error
Bill Ready: Example of Enrollment using EB1 (re-enrollment- drop sent in error)
Note: Re-enrollment of incumbent would use same format, but would have REF*1P*EB2.

BGN*13*199904011956531*19990401	Request, unique transaction identification number, transaction creation date
N1*8S*LDC COMPANY*1*007909411**40	LDC Name, LDC DUNS information, receiver
N1*SJ*ESP COMPANY*9*007909422ESP1**41	ESP Name, ESP DUNS information, submitter
N1*8R*CUSTOMER NAME	Customer Name
LIN*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number

REF*12*293839200	LDC Account Number
REF*1P*EB1	Re-enroll customer – drop sent in error
REF*BLT*LDC	LDC consolidates the LDC and ESP charges
REF*PC*DUAL	Each party calculates its own charges (Bill Ready)
DTM*129*20090401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
AMT*7N*1	Participating interest:

PECO PA Specific Enrollment & Summary/Detail Interval Samples

Scenario 1: ESP enrollment, no data preference specified (implied summary preference)

Bill-Ready EDI 814 enrollment

BGN*13*199904011956531*19990401	Request, unique transaction identification number, transaction creation date
N1*8S*LDC COMPANY*1*007909411**40	LDC Name, LDC DUNS information, receiver
N1*SJ*ESP COMPANY*9*007909422ESP1**41	ESP Name, ESP DUNS information, submitter
N1*8R*CUSTOMER NAME	Customer Name
LIN*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*BLT*LDC	LDC consolidates the LDC and ESP charges
REF*PC*DUAL	Each party calculates its own charges (Bill Ready)
DTM*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
AMT*7N*1	Participating interest:

Bill-Ready EDI 814 enrollment response

BGN*11*199904020830531*19990402***199904011956531	Response, unique transaction identification number, transaction creation date and original request transaction identification number
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*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*WQ*021	Accept Enrollment request
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*4N*N	LDC Payment Arrangement Status
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*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
DTM*150*19990425	Estimated Start date
AMT*7N*1	Participating interest
AMT*QY*1	Eligible Load Percentage
AMT*5J*2	Air conditioners in load cycling program
AMT*L0*1	Water Heaters in load cycling program
AMT*KC*12.8	Peak Load Capacity
AMT*KZ*14.1	Network Service Peak Load
AMT*LD*12	Number of months over which the total kWh and/or Peak Demand are calculated
AMT*MA*50	Peak Demand
AMT*TA*125500	Total kWh
NM1*MQ*3*****32*123857G	Meter 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*COMBO*I	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

Scenario 2: ESP enrollment, requesting summary data

Bill-Ready EDI 814 enrollment from ESP

BGN*13*199904011956531*19990401	Request, unique transaction identification number, transaction creation date
N1*8S*LDC COMPANY*1*007909411**40	LDC Name, LDC DUNS information, receiver
N1*SJ*ESP COMPANY*9*007909422ESP1**41	ESP Name, ESP DUNS information, submitter
N1*8R*CUSTOMER NAME	Customer Name
LIN*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*BLT*LDC	LDC consolidates the LDC and ESP charges
REF*PC*DUAL	Each party calculates its own charges (Bill Ready)
DTM*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
AMT*7N*1	Participating interest:
LIN*SI1999040111956532*SH*EL*SH*SI	Unique transaction reference number, request for electric summary only interval data
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*17*SUMMARY	Summary/Interval Indicator

Bill-Ready EDI 814 enrollment response from EDC

BGN*11*199904020830531*19990402***199904011956531	Response, unique transaction identification number, transaction creation date and original request transaction identification number
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*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*WQ*021	Accept Enrollment request
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*4N*N	LDC Payment Arrangement Status

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*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
DTM*150*19990425	Estimated Start date
AMT*7N*1	Participating interest
AMT*QY*1	Eligible Load Percentage
AMT*5J*2	Air conditioners in load cycling program
AMT*L0*1	Water Heaters in load cycling program
AMT*KC*12.8	Peak Load Capacity
AMT*KZ*14.1	Network Service Peak Load
AMT*LD*12	Number of months over which the total kWh and/or Peak Demand are calculated
AMT*MA*50	Peak Demand
AMT*TA*125500	Total kWh
NM1*MQ*3******32*123857G	Meter 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*COMBO*I	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
LIN* SI1999040111956532*SH*EL*SH*SI	Unique transaction reference number, request for electric Meter Information
ASI*WQ*021	Request for inquiry was **Accepted**
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*17*SUMMARY	Summary/Interval Indicator

Scenario 3: ESP enrollment, requesting detailed interval data (account-level preference)

Bill-Ready EDI 814 enrollment from ESP

BGN*13*199904011956531*19990401	Request, unique transaction identification number, transaction creation date
N1*8S*LDC COMPANY*1*007909411**40	LDC Name, LDC DUNS information, receiver
N1*SJ*ESP COMPANY*9*007909422ESP1**41	ESP Name, ESP DUNS information, submitter
N1*8R*CUSTOMER NAME	Customer Name
LIN*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*BLT*LDC	LDC consolidates the LDC and ESP charges
REF*PC*DUAL	Each party calculates its own charges (Bill Ready)
DTM*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
AMT*7N*1	Participating interest:
LIN*SI1999040111956532*SH*EL*SH*SI	Unique transaction reference number, request for electric summary only interval data
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*17*DETAIL	Summary/Interval Indicator

Bill-Ready EDI 814 enrollment response from EDC

BGN*11*199904020830531*19990402***199904011956531	Response, unique transaction identification number, transaction creation date and original request transaction identification number
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*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*WQ*021	Accept Enrollment request
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*4N*N	LDC Payment Arrangement Status

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*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
DTM*150*19990425	Estimated Start date
AMT*7N*1	Participating interest
AMT*QY*1	Eligible Load Percentage
AMT*5J*2	Air conditioners in load cycling program
AMT*L0*1	Water Heaters in load cycling program
AMT*KC*12.8	Peak Load Capacity
AMT*KZ*14.1	Network Service Peak Load
AMT*LD*12	Number of months over which the total kWh and/or Peak Demand are calculated
AMT*MA*50	Peak Demand
AMT*TA*125500	Total kWh
NM1*MQ*3******32*123857G	Meter 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*COMBO*I	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
LIN* SI1999040111956532*SH*EL*SH*SI	Unique transaction reference number, request for electric Meter Information
ASI*WQ*021	Request for inquiry was **Accepted**
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*17*DETAIL	Summary/Interval Indicator

Scenario 4: ESP enrollment, requesting detailed interval data at the meter level, plus a secondary HU request

Bill-Ready EDI 814 enrollment from ESP

BGN*13*199904011956531*19990401	Request, unique transaction identification number, transaction creation date
N1*8S*LDC COMPANY*1*007909411**40	LDC Name, LDC DUNS information, receiver
N1*SJ*ESP COMPANY*9*007909422ESP1**41	ESP Name, ESP DUNS information, submitter
N1*8R*CUSTOMER NAME	Customer Name
LIN*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*BLT*LDC	LDC consolidates the LDC and ESP charges
REF*PC*DUAL	Each party calculates its own charges (Bill Ready)
DTM*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
AMT*7N*1	Participating interest:
LIN*SI1999040111956532*SH*EL*SH*SI	Unique transaction reference number, request for electric summary only interval data
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*17*METERDETAIL	Summary/Interval Indicator
LIN*SI1999040111956533*SH*EL*SH*HU	Unique transaction reference number, request for electric Historical Usage
ASI*7*029	Request for inquiry
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number

Bill-Ready EDI 814 enrollment response from EDC

BGN*11*199904020830531*19990402***199904011956531	Response, unique transaction identification number, transaction creation date and original request transaction identification number
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*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*WQ*021	Accept Enrollment request
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*4N*N	LDC Payment Arrangement Status
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*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
DTM*150*19990425	Estimated Start date
AMT*7N*1	Participating interest
AMT*QY*1	Eligible Load Percentage
AMT*5J*2	Air conditioners in load cycling program
AMT*L0*1	Water Heaters in load cycling program
AMT*KC*12.8	Peak Load Capacity
AMT*KZ*14.1	Network Service Peak Load
AMT*LD*12	Number of months over which the total kWh and/or Peak Demand are calculated
AMT*MA*50	Peak Demand
AMT*TA*125500	Total kWh
NM1*MQ*3*****32*123857G	Meter 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*COMBO*I	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
LIN* SI1999040111956532*SH*EL*SH*SI	Unique transaction reference number, request for electric Meter Information
ASI*WQ*021	Request for inquiry was **Accepted**
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*17*METERDETAIL	Summary/Interval Indicator

.

PECO would also send an EDI 814 HU response (acceptance) and EDI 867 HU (not shown).

Scenario 5: For NON-INTERVAL account: ESP enrollment, requesting detailed interval data

Bill-Ready EDI 814 enrollment from ESP

BGN*13*199904011956531*19990401	Request, unique transaction identification number, transaction creation date
N1*8S*LDC COMPANY*1*007909411**40	LDC Name, LDC DUNS information, receiver
N1*SJ*ESP COMPANY*9*007909422ESP1**41	ESP Name, ESP DUNS information, submitter
N1*8R*CUSTOMER NAME	Customer Name
LIN*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*BLT*LDC	LDC consolidates the LDC and ESP charges
REF*PC*DUAL	Each party calculates its own charges (Bill Ready)
DTM*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
AMT*7N*1	Participating interest:
LIN*SI1999040111956532*SH*EL*SH*SI	Unique transaction reference number, request for electric summary only interval data
ASI*7*021	Request for addition
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number
REF*17*DETAIL	Summary/Interval Indicator

Bill-Ready EDI 814 enrollment response from EDC

BGN*11*199904020830531*19990402***199904011956531	Response, unique transaction identification number, transaction creation date and original request transaction identification number
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*CE1999123100002*SH*EL*SH*CE	Unique transaction reference number, enrollment request for electric generation services
ASI*WQ*021	Accept Enrollment request
REF*11*2348400586	ESP Account Number

REF*12*293839200	LDC Account Number
REF*4N*N	LDC Payment Arrangement Status
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*129*19990401*1430*ET	Date/time/time zone customer agreed to obtain service from the Service Provider
DTM*150*19990425	Estimated Start date
AMT*7N*1	Participating interest
AMT*QY*1	Eligible Load Percentage
AMT*5J*2	Air conditioners in load cycling program
AMT*L0*1	Water Heaters in load cycling program
AMT*KC*12.8	Peak Load Capacity
AMT*KZ*14.1	Network Service Peak Load
AMT*LD*12	Number of months over which the total kWh and/or Peak Demand are calculated
AMT*MA*50	Peak Demand
AMT*TA*125500	Total kWh
NM1*MQ*3******32*123857G	Meter 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*COMBO**M**	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
LIN* SI1999040111956532*SH*EL*SH*SI	Unique transaction reference number, request for electric Meter Information
ASI*U*021	Request for inquiry was **Rejected**
REF*7G*NIA*NOT INTERVAL ACCOUNT	**Status reason code**
REF*11*2348400586	ESP Account Number
REF*12*293839200	LDC Account Number