Pennsylvania
New Jersey
Delaware
Maryland

Implementation Guideline

For

Electronic Data Interchange

TRANSACTION SET

810

ESP Consolidated Bill

Ver/Rel 004010

Table of Contents

	Summary of Changes
November 12, 1999 Version 0.1	Initial Release
February 15, 2000 Version 0.1MD2	Added SAC04 values
February 17, 2000 Version 0.1MD3	• Mark REF*OI as mandatory • Correct words on REF*PR loop section, make PA Use words the same as 814. • IT109 options – remove UNMET (only ACCOUNT and RATE will be valid) • Make TXI10 optional – make words consistent with other sequence fields • IT1 segment – explain use of ACCOUNT/RATE • SLN segment – remove example at bottom of page – examples in back explain it better • Remove NTE from X12 structure page • Clarified missed bill window for reciprocity • Correct examples
March 23, 2000 Version 1.0	• Clarified use of sequence number • Correct IT1 segment for Rate • Correct placement of PID in examples • This version is considered FINAL for Pennsylvania. Maryland and Delaware are still considered in draft status.
July 22,2000 Version 1.0-1	• Incorporate PA Change Control X019 – add optional PER segment for utility contact phone number
September 10, 2000 Version 1.1	This transaction is a new FINAL version for Pennsylvania. This transaction is not currently used in New Jersey, Maryland, and Delaware (Conectiv only).
October 19, 2001 Version 1.1rev01	• Incorporate Delaware Electric Coop (DEC) information for Delaware
December 13, 2001 Version 1.1rev02	• Incorporate PA Change Control 038 – change all references to PPL and PP&L to PPL EU.
January 9, 2002 Version 2.0	This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware.

	General Notes
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)
General Notes	This document is used to define the requirements of the ESP Consolidated Bills. The non-billing parties will calculate their own charges and send 810 to ESP. ESP Consolidated Billing will always be considered Bill Ready. This transaction will always be sent from the LDC to the ESP.
IT1 Loop	The IT1 is used to indicate whether the charge/tax is at a rate level, account level, or unmetered level. **IT109 = "ACCOUNT"** for billing information that pertains to the entire account. • Pennsylvania Gross Receipts Tax and Estimated PA State Tax must always be provided in the Account Loop • Account Loop may contain all charges and taxes for the customer's account, e.g., Customer Account Charge, Meter Charge, State Sales Tax, County Tax and all regulated charges. • Account Loop may be used in Bill Ready ESP Consolidated Billing and may contain just account level charges and all taxes, e.g. Customer Account Charge, Meter Charge, State Sales Tax and County Tax, with generation charges itemized in the Rate Loop (IT109=RATE) and/or Unmetered Loop (IT109=UNMET). Each LDC will indicate the method they will be sending, which should be consistent with what they are accepting in EDC Bill Ready. **IT109 = "RATE"** when billing information is being provided at a Rate level. • Pennsylvania Gross Receipts Tax and Estimated PA State Tax must **never** be provided in the Rate Loop. • Rate Loop may be used in Bill Ready ESP Consolidated Billing. Each LDC will indicate the method they will be sending, which should be consistent with what they are accepting in EDC Bill Ready.
Bill Ready – Sending Multiple 810s:	• The dates (DTM segments) in the 810 must match the dates (DTM segments) in the corresponding 867. • Prior period charges must be sent in separate 810 sets (ST segment to SE segment) within one ISA. • ESPs will initiate the billing process upon the receipt of the current charges so LDCs must ensure prior period charges are sent prior to the current charges during the current bill window.
Bill Ready – Sequencing Numbers	• Print sequencing numbers must be unique and sequential within each 810. If print sequencing numbers are not unique and sequential, the billing party will determine the order on the bill (i.e., the 810 will not be rejected because the sequencing numbers are not unique).
Cross Reference Number between 867, 810, and 820	There is a cross reference between billing related documents. • 867 – BPT02 – This document establishes the cross reference number. • 810 – BIG05 – This document must have the cross reference number from the respective 867. • 820 – REF6O (letter O) – When making the other party whole, the 820 to the non-billing party must also include the cross reference number from 867/810 document.

Pennsylvania Notes

Chapter 56	• In order to understand all the billing rules applicable in PA, this document must be used in conjunction with Chapter 56. Residential, Commercial and Industrial customer classes each have different billing rules and requirements.
Supplier Consolidated Billing	**Note:** As of March 2000, this document only reflects requirements to support Supplier Consolidated Billing where the party doing the billing is the party supplying generation services. The requirements for third party billing have not been addressed, and are not included in this document.
Billing Information:	• Allegheny – Will support ESP Consolidated Bill Ready 9/2000 • Duquesne – Does not support ESP Consolidated billing. • GPU – Will support ESP Consolidated billing 9/2000 • PECO – Will support ESP Consolidated billing 7/2000 • PPL EU – Will support ESP Consolidated billing 7/2000 • Penn Power – Does not support ESP Consolidated billing. • UGI – Does not support ESP Consolidated billing.
Calculating Previous Unpaid Balance	The billing party has the responsibility of calculating the previous unpaid balance, regardless of whether or not the billing party is making the non-billing party whole.
Cancellation Scenarios: Bill Ready – Directly Related to Usage	**<u>ESP Consolidated with LDC Meter Read:</u>** • PPL EU, PECO – the 867 sent by the LDC will cancel the 810 – a separate cancel 810 will not be sent. • GPU – an 867 cancel and an 810 cancel (BIG08=01) will both be sent. • Allegheny – To be determined **<u>ESP Consolidated with Third Party Meter Read:</u>** • PPL EU, PECO – the LDC charges will be cancelled with an 810 (BIG08=17). • GPU – The LDC charges will be cancelled with an 810 (BIG08=01).
Cancellation Scenarios: Bill Ready – NOT Related to Usage	<u>PPL EU, PECO</u> • The LDC charges will be cancelled with an 810 (BIG08=17). The new charges will be sent with an 810 (BIG08=18). <u>GPU</u> • The LDC charges will be cancelled with an 810 (BIG08=01). The new charges will be sent with an 810 (BIG08=00). <u>Allegheny</u> Not determined as of 1/31/2000.
Switch from LDC Consolidated to ESP Consolidated	If on the last month of an LDC Consolidated Bill, the supplier misses the bill window, and charges are sent the following month, they will be rejected with an 824 (A84 – Not ESP of Record) **GPU Note:** If GPU is holding those charges for the next bill window, they will need to inform the supplier that they will not be presenting them on the next bill.
Bill Ready - Missed Window:	Each LDC has distinct rules on how a missed bill window will be handled, and expects reciprocity: **PPL EU** • If the ESP does not get the 810 to the LDC in time for the charges to be added to the bill, the ESP will send as many 810s (ST segment through SE segment) within the same ISA Envelope as required to submit previous periods (if three periods were missed, four 810s will be sent: the three missed prior periods and the current month). All 810s must be in the same ISA envelope, as receipt of the 810s within the bill window triggers billing by PPL EU. Only the most current month's 810 will be used for text messages.

	PECO • If the ESP does not get the 810 to the LDC in time for the charges to be added to the bill, the ESP will send 810s (ST segment through SE segment) within the same ISA Envelope as required to submit previous periods (if three periods were missed, four 810s will be sent: the three missed prior periods and the current month). All 810s must be in the same ISA envelope, as receipt of the 810s within the bill window triggers billing by PPL EU. Only the most current month's 810 will be used for text messages. **GPU** • GPU will hold supplier charges and present on the next bill
Budget Billing	**Allegheny** Expects that the EDC would calculate the budget amount for EDC charges and send it to the EGS via an 810. • Budget Bill charges will be sent to ESP as charges to print and be calculated in the total • Actual charges will be sent to ESP as “ignore” (SAC01=N) in calculating total, but will print on the bill **GPU** Would send actual charges, expect the ESP to calculate the budget and reimburse actual charges. Exception would only apply if an ESP were granted a waiver from budget billing. GPU will settle on the deferred balance upon the switch to the EGS Consolidated Bill. • Budget Bill charges will NOT be sent to an ESP **PECO Energy** Would send actual charges, expect the EGS to calculate the budget and reimburse actual charges. Exception would only apply if an EGS were granted a waiver from budget billing. PECO will settle on the deferred balance upon the switch to the EGS Consolidated Bill. • Budget Bill charges will NOT be sent to an ESP **PPL EU** Expects that the EDC would calculate the budget amount for EDC charges and send it to the EGS via an 810. If a customer is on Budget Billing and switches to EGS Consolidated Billing, PPL EU will not settle on the deferred balance until the customer's normal settlement month. PPL EU would not settle upon the switch to EGS Consolidated Billing. • Budget Bill charges will be sent to ESP as charges to print and be calculated in the total • Actual charges will be sent to ESP as “ignore” (SAC01=N) in calculating total, but will print on the bill
Text	Text will be provided in the IT109 “ACCOUNT” loop. The PID segment will be used for passing these texts.
Use of IT1 Loops	**GPU** • GPU plans to send taxes and all line item charges in the ACCOUNT loop. **PECO** • PECO will send all taxes in the ACCOUNT loop. • PECO will send all basic charges in either a RATE loop. If there are multiple electric rates on the account, there will be multiple RATE loops. If there is one electric rate code on the account, there will be one RATE loop. **PPL EU** • Not determined **Allegheny** • Allegheny plans to send taxes and all line item charges in the ACCOUNT loop.

Pennsylvania Cancel / Rebill Scenarios
Various Combinations of Supplier and Billing Agents

Cancel and Re-bills	Bill Ready/Making the other Party Whole - Each entity will be responsible for billing activity for periods when the entity was the billing agent. The meter agent triggers the cancel/re-bill. An 867 Purpose Code 01 will be sent to the billing agent. An 867 Purpose Code 00 (Re-bill) and the 810 will be sent together. **AP,GPU, PECO and PPL EU** support the cancel and re-bill scenarios listed. GPU does not support the 867 Purpose Code 01 automatically cancelling the non-billing party charges.
Cancel current bill only, same billing Option <u>Bill Period</u> <u>Bill Option</u> Month 1 ESP Consolidated	**AP, PECO & PPL EU** METERING AGENT sends 867 Purpose Code 01 to ESP for Month 1 a) If 820 already sent from ESP, the ESP will send an adjustment to the LDC b) If 820 not sent, ESP will not send an 820 for the original charges METERING AGENT sends 867 Purpose Code 00 (Re-bill) 810 to ESP for Month 1. **GPU:** Meter Agent sends 867 Purpose Code 01 to ESP for Month 1 LDC sends 810 Purpose Code 01 to ESP for Month 1 a) If 820 already sent from ESP, the ESP will send an adjustment to the LDC b) If 820 not sent, ESP will not send an 820 for the original charges Meter Agent sends 867 Purpose Code 00 (Re-bill) to ESP for Month 1. LDC sends 810 Purpose Code 00 (Re-bill) to ESP for Month 1 ALL CUSTOMER RECEIVES ONE (1) BILL FROM ESP
Cancel over multiple periods, different ESP's, same billing option <u>Bill Period</u> <u>ESP</u> <u>Bill Option</u> Month 1 ESP 1 ESP Consolidated Month 2 ESP 2 ESP Consolidated	AP, PECO/ PPL EU METERING AGENT sends 867 Purpose Code 01 to ESP 1 for Month 1 a) If 820 already sent from ESP 1, the ESP will send an adjustment to the LDC b) If 820 not sent, ESP 1 will not send an 820 for the original charges METERING AGENT sends 867 Purpose Code 01 to current ESP (ESP 2) for Month 2 a) If 820 already sent from ESP 2, the ESP will send an adjustment to the LDC b) If 820 not sent, ESP 2 will not send an 820 for the original charges METERING AGENT sends 867 Purpose Code 00 (Re-bill) and an 810 to ESP 1 for Month 1; ESP 1 will bill ESP 1 and LDC charges for Month 1 METERING AGENT sends 867 Purpose Code 00 (Re-bill) and an 810 to current ESP (ESP 2) for

	Month 2. GPU: Meter Agent sends 867 Purpose Code 01 to ESP 1 for Month 1 LDC sends 810 Purpose Code 01 to ESP 1for Month 1 a) If 820 already sent from ESP 1, the ESP will send an adjustment to the LDC b) If 820 not sent, ESP 1 will not send an 820 for the original charges Meter Agent sends 867 Purpose Code 01 to current ESP (ESP 2) for Month 2 LDC sends 810 Purpose Code 01 to current ESP (ESP 2) for Month 2 a) If 820 already sent from ESP 2, the ESP will send an adjustment to the LDC b) If 820 not sent, ESP 2 will not send an 820 for the original charges Meter Agent sends 867 Purpose Code 00 (Re-bill) and LDC sends Purpose Code 00 (Re-Bill) 810 to ESP 1 for Month 1; ESP 1 will bill ESP 1 and LDC charges for Month 1 Meter Agent sends 867 Purpose Code 00 (Re-bill) and LDC sends Purpose Code 00 (Re-Bill) 810 to current ESP (ESP 2) for Month 2. ALL: CUSTOMER RECEIVES TWO (2) BILLS One from ESP 1 for previous ESP 1 & LDC charges One from ESP 2 for current ESP 2 and LDC charges.
Cancel over multiple periods, different ESP's, different billing Options <u>Bill Period ESP Bill Option</u> Month 1 ESP 1 LDC Consolidated Month 2 ESP 2 ESP Consolidated	AP, PECO / PPL EU METERING AGENT sends 867 Purpose Code 01 to previous ESP (ESP 1) for Month 1 a) If 820 already sent from LDC, the LDC will send an adjustment to the ESP 1 b) If 820 not sent, LDC will not send an 820 for the original charges METERING AGENT sends 867 Purpose Code 01 to current ESP (ESP 2) for Month 2 a) If 820 already sent from ESP 2, the ESP will send an adjustment to the LDC b) If 820 not sent, ESP 2 will not send an 820 for the original charges METERING AGENT sends 867 Purpose Code 00 (Re-bill) to previous ESP (ESP 1) for Month 1 ESP (ESP 1) will send an 810 for Month 1 within the billing window to the LDC METERING AGENT would send an 867 Purpose Code 00 (Re-bill) and an 810 for Month 2 to current ESP (ESP 2). GPU: Meter Agent sends 867 Purpose Code 01 to previous ESP (ESP 1) for Month 1 ESP 1 sends 810 Purpose Code 01 to LDC for Month 1 (may occur with the rebill) a) If 820 already sent from LDC, the LDC will send an adjustment to the ESP 1 b.) If 820 not sent, LDC will not send an 820 for the original

	charges Meter Agent sends 867 Purpose Code 01 to current ESP (ESP 2) for Month 2 LDC sends 810 Purpose Code 01 to ESP 2 for Month 2 a) If 820 already sent from ESP 2, the ESP will send an adjustment to the LDC b) If 820 not sent, ESP 2 will not send an 820 for the original charges Meter Agent sends 867 Purpose Code 00 (Re-bill) to previous ESP (ESP 1) for Month 1 ESP (ESP 1) will send an 810 for Month 1 within the billing window to the LDC Meter Agent would send an 867 Purpose Code 00 (Re-bill) and LDC sends Purpose Code 00 (Re-Bill) 810 for Month 2 to current ESP (ESP 2). ALL: CUSTOMER RECEIVES TWO (2) BILLS One from LDC for previous ESP 1 and LDC charges One from ESP 2 for current ESP 2 and LDC charges.
Over multiple periods, different ESP's, different billing Options <u>Bill Period ESP Bill Option</u> Month 1 ESP 1 Dual Month 2 ESP 2 ESP Consolidated	AP, PECO / PPL EU METERING AGENT sends 867 Purpose Code 01 to ESP 1 METERING AGENT sends 867 Purpose Code 00 (Re-bill) to previous ESP (ESP 1) for Month 1 ESP 1 and LDC each re-bills their own charges METERING AGENT sends 867 Purpose Code 01 to current ESP (ESP 2) for Month 2 a) If 820 already sent from ESP 2, the ESP will send an adjustment to the LDC b) If 820 not sent, ESP 2 will not send an 820 for the original charges METERING AGENT sends 867 Purpose Code 00 (Re-bill) and the LDC sends 810 for Month 2 to ESP 2. GPU Meter Agent sends 867 Purpose Code 01 to ESP 1 Meter Agent sends 867 Purpose Code 00 (Re-bill) to previous ESP (ESP 1) for Month 1 ESP 1 and LDC each re-bills their own charges Meter Agent sends 867 Purpose Code 01 to current ESP (ESP 2) for Month 2 LDC sends 810 Purpose Code 01 to ESP 2 for Month 2 a) If 820 already sent from ESP 2, the ESP will send an adjustment to the LDC b) If 820 not sent, ESP 2 will not send an 820 for the original charges Meter Agent sends 867 Purpose Code 00 (Re-bill) and LDC sends Purpose Code 00 (Re-Bill) 810 for Month 2 to ESP 2. ALL: CUSTOMER RECEIVES THREE (3) BILLS One from ESP 1 for previous ESP 1 charges One from LDC for previous LDC charges One from ESP 2 for current ESP 2 charges and current LDC charges.

<table>
<tr><td></td><td></td></tr>
<tr><td>Over multiple periods, different ESP's, different billing Options

<u>Bill Period ESP Bill Option</u>

Month 1 ESP 1 ESP Consolidated
Month 2 ESP 2 LDC Consolidated</td><td>AP, PECO / PPL EU
METERING AGENT sends 867 Purpose Code 01 to ESP 1 for Month 1
a) If 820 already sent from ESP 1, the ESP will send an adjustment to the LDC
b) If 820 not sent, ESP 1 will not send an 820 for the original charges
METERING AGENT sends 867 Purpose Code 00 (Re-bill) and LDC sends 810 to previous ESP (ESP 1) for Month 1 ESP 1 does billing for ESP 1 and LDC charges
METERING AGENT sends 867 Purpose Code 01 and 867 Purpose Code 00 (Re-bill) to current ESP (ESP 2) for Month 2
a) If 820 already sent to ESP 2, LDC will send an adjustment to ESP 2
b) If 820 not sent, LDC will not send an 820
Current ESP (ESP 2) sends LDC an 810 for current charges for Month 2; LDC bills ESP 2 current charges and LDC current charges (Month 2).

GPU:
Meter Agent sends 867 Purpose Code 01 to ESP 1 for Month 1
LDC sends 810 Purpose Code 01 to ESP 1for Month 1
a) If 820 already sent from ESP 1, the ESP will send an adjustment to the LDC
b) If 820 not sent, ESP 1 will not send an 820 for the original charges

Meter Agent sends 867 Purpose Code 00 (Re-bill) and LDC sends Purpose Code 00 (Re-Bill) 810 to previous ESP (ESP 1) for Month 1 ESP 1 does billing for ESP 1 and LDC charges

Meter Agent sends 867 Purpose Code 01 and 867 Purpose Code 00 (Re-bill) to current ESP (ESP 2) for Month 2
a) If 820 already sent to ESP 2, LDC will send an adjustment to ESP 2
b) If 820 not sent, LDC will not send an 820
Current ESP (ESP 2) sends LDC an 810 Purpose Code 01 and 810 Purpose Code 00 (Re-bill) for current charges for Month 2; LDC bills ESP 2 current charges and LDC current charges (Month 2).

ALL:
CUSTOMER RECEIVES TWO (2) BILLS
One from ESP 1 for previous ESP 1 charges and previous LDC charges
One from the LDC for current ESP 2 charges and LDC charges.</td></tr>
<tr><td>Over multiple periods, different ESP's, different billing Options
<u>Bill Period ESP Bill Option</u>

Month 1 ESP 1 ESP Consolidated
Month 2 ESP 2 Dual</td><td>AP, PECO / PPL EU
METERING AGENT sends 867 Purpose Code 01 to previous ESP (ESP 1) for Month 1
a) If 820 already sent by ESP 1, the ESP 1 will send an adjustment to the LDC
b) If 820 not sent, ESP 1 will not send an 820
METERING AGENT sends 867 Purpose Code 00 (Re-bill) and LDC sends 810 to previous ESP (ESP 1) for Month 1</td></tr>
</table>

	-- ESP 1 does billing for ESP 1 and LDC charges METERING AGENT sends 867 Purpose Code 01 and 867 Purpose Code 00 (Re-bill) to current ESP (ESP 2) for Month 2 – separate billing LDC bills current charges for month 2 and ESP bills current charges for month 2 -- separate billing GPU: Meter Agent sends 867 Purpose Code 01 to previous ESP (ESP 1) for Month 1 LDC sends 810 Purpose Code 01 to ESP 1for Month 1 a) If 820 already sent by ESP 1, the ESP 1 will send an adjustment to the LDC b) If 820 not sent, ESP 1 will not send an 820 Meter Agent sends 867 Purpose Code 00 (Re-bill) and LDC sends Purpose Code 00 (Re-Bill) 810 to previous ESP (ESP 1) for Month 1 -- ESP 1 does billing for ESP 1 and LDC charges Meter Agent sends 867 Purpose Code 01 and 867 Purpose Code 00 (Re-bill) to current ESP (ESP 2) for Month 2 – separate billing LDC bills current charges for month 2 and ESP bills current charges for month 2 -- separate billing ALL: CUSTOMER RECEIVES THREE (3) BILLS One from ESP 1 for previous ESP 1 charges and previous LDC charges One from ESP 2 for current ESP 2 charges One from the LDC for current LDC charges.
Cancel over multiple periods, same ESP, different billing Options <u>Bill Period</u> <u>ESP</u> <u>Bill Option</u> Month 1 ESP 1 LDC Consolidated Month 2 ESP 1 ESP Consolidated	AP, PECO / PPL EU METERING AGENT sends 867 Purpose Code 01 to ESP 1 for Month 1 a) If 820 already sent from LDC, the LDC will send an adjustment to the ESP 1 b) If 820 not sent, LDC will not send an 820 for the original charges METERING AGENT sends 867 Purpose Code 01 to ESP 1 for Month 2 a) If 820 already sent from ESP 1, the ESP will send an adjustment to the LDC b) If 820 not sent, ESP 1 will not send an 820 for the original charges METERING AGENT sends 867 Purpose Code 00 (Re-bill) to ESP 1 for Month 1 ESP (ESP 1) will send an 810 for Month 1 within the billing window to the LDC. METERING AGENT would send an 867 Purpose Code 00 (Re-bill) and LDC would send an 810 for Month 2 to ESP 1. GPU: Meter Agent sends 867 Purpose Code 01 to ESP 1 for Month 1 ESP 1 sends 810 Purpose Code 01 to LDC for Month 1 (may occur with the rebill) a) If 820 already sent from LDC, the LDC will send an adjustment to the ESP 1

	b) If 820 not sent, LDC will not send an 820 for the original charges Meter Agent sends 867 Purpose Code 01 to ESP 1 for Month 2 LDC sends 810 Purpose Code 01 to ESP 1for Month 2 a) If 820 already sent from ESP 1, the ESP will send an adjustment to the LDC b) If 820 not sent, ESP 1 will not send an 820 for the original charges Meter Agent sends 867 Purpose Code 00 (Re-bill) to ESP 1 for Month 1 ESP (ESP 1) will send an 810 for Month 1 within the billing window to the LDC Meter Agent would send an 867 Purpose Code 00 (Re-bill) and LDC would send Purpose Code 00 (Re-Bill) 810 for Month 2 to ESP 1. ALL: CUSTOMER RECEIVES TWO (2) BILLS One from LDC for previous ESP 1 and LDC charges One from ESP 1 for current ESP 1 and LDC charges.
Over multiple periods, same ESP, different billing Options <u>Bill Period ESP Bill Option</u> Month 1 ESP 1 Dual Month 2 ESP 1 ESP Consolidated	PECO / PPL EU: METERING AGENT sends 867 Purpose Code 01 to ESP 1 METERING AGENT sends 867 Purpose Code 00 (Re-bill) to ESP 1 for Month 1 ESP 1 and LDC each re-bills their own charges METERING AGENT sends 867 Purpose Code 01 to ESP 1 for Month 2 a) If 820 already sent from ESP 1, the ESP will send an adjustment to the LDC b) If 820 not sent, ESP 1 will not send an 820 for the original charges METERING AGENT sends 867 Purpose Code 00 (Re-bill) and LDC sends 810 for Month 2 to ESP 1. GPU: Meter Agent sends 867 Purpose Code 01 to ESP 1 Meter Agent sends 867 Purpose Code 00 (Re-bill) to ESP 1 for Month 1 ESP 1 and LDC each re-bills their own charges Meter Agent sends 867 Purpose Code 01 to ESP 1 for Month 2 LDC sends 810 Purpose Code 01 to ESP 1 for Month 2 a) If 820 already sent from ESP 1, the ESP will send an adjustment to the LDC b) If 820 not sent, ESP 1 will not send an 820 for the original charges Meter Agent sends 867 Purpose Code 00 (Re-bill) and LDC sends Purpose Code 00 (Re-Bill) 810 for Month 2 to ESP 1. ALL: CUSTOMER RECEIVES TWO (2) OR THREE (3) BILLS One from ESP 1 for previous ESP 1 charges

	One from LDC for previous LDC charges One from ESP 1 for current ESP 1 charges and current LDC charges. OR One from ESP 1 for previous ESP 1 charges and current ESP 1 and LDC charges. One from LDC for previous LDC charges
Over multiple periods, same ESP, different billing Options <u>Bill Period</u> <u>ESP</u> <u>Bill Option</u> Month 1 ESP 1 ESP Consolidated Month 2 ESP 1 LDC Consolidated	PECO / PPL EU METERING AGENT sends 867 Purpose Code 01 to ESP 1 for Month 1 a) If 820 already sent from ESP 1, the ESP will send an adjustment to the LDC b) If 820 not sent, ESP 1 will not send an 820 for the original charges METERING AGENT sends 867 Purpose Code 00 (Re-bill) and LDC sends 810 to ESP 1 for Month 1. ESP 1 does billing for ESP 1 and LDC charges METERING AGENT sends 867 Purpose Code 01 and 867 Purpose Code 00 (Re-bill) to ESP 1 for Month 2 c) If 820 already sent to ESP 1, LDC will send an adjustment to ESP 1 d) If 820 not sent, LDC will not send an 820 ESP 1 sends LDC an 810 for current charges for Month 2; LDC bills ESP 1 current charges and LDC current charges (Month 2). GPU: Meter Agent sends 867 Purpose Code 01 to ESP 1 for Month 1 LDC sends 810 Purpose Code 01 to ESP 1 for Month 1 a) If 820 already sent from ESP 1, the ESP will send an adjustment to the LDC b) If 820 not sent, ESP 1 will not send an 820 for the original charges Meter Agent sends 867 Purpose Code 00 (Re-bill) and LDC sends Purpose Code 00 (Re-Bill) 810 to ESP 1 for Month 1. ESP 1 does billing for ESP 1 and LDC charges Meter Agent sends 867 Purpose Code 01 and 867 Purpose Code 00 (Re-bill) to ESP 1 for Month 2 ESP 1 sends 810 Purpose code 01 to LDC for Month 2 c) If 820 already sent to ESP 1, LDC will send an adjustment to ESP 1 d) If 820 not sent, LDC will not send an 820 ESP 1 sends LDC an 810 for current charges for Month 2; LDC bills ESP 1 current charges and LDC current charges (Month 2). ALL: CUSTOMER RECEIVES TWO (2) BILLS One from ESP 1 for previous ESP 1 charges and previous LDC charges One from the LDC for current ESP 1 charges and LDC charges.
Over multiple periods, same ESP, different billing Options <u>Bill Period</u> <u>ESP</u> <u>Bill Option</u> Month 1 ESP 1 ESP Consolidated	 PECO / PPL EU METERING AGENT sends 867 Purpose Code 01 to ESP 1 for Month 1 a) If 820 already sent by ESP 1, the ESP 1 will send an

Month 2 ESP 1	Dual	adjustment to the LDC b) If 820 not sent, ESP 1 will not send an 820 METERING AGENT sends 867 Purpose Code 00 (Re-bill) and 810 to ESP 1 for Month 1 -- ESP 1 does billing for ESP 1 and LDC charges METERING AGENT sends 867 Purpose Code 01 and 867 Purpose Code 00 (Re-bill) to ESP 1 for Month 2 – separate billing LDC bills current charges for month 2 and ESP bills current charges for month 2 -- separate billing GPU: Meter Agent sends 867 Purpose Code 01 to ESP 1 for Month 1 LDC sends 810 Purpose Code 01 to ESP 1 for Month 1 a) If 820 already sent by ESP 1, the ESP 1 will send an adjustment to the LDC b) If 820 not sent, ESP 1 will not send an 820 Meter Agent sends 867 Purpose Code 00 (Re-bill) and LDC sends Purpose Code 00 (Re-Bill) 810 to ESP 1 for Month 1 -- ESP 1 does billing for ESP 1 and LDC charges Meter Agent sends 867 Purpose Code 01 and 867 Purpose Code 00 (Re-bill) to ESP 1 for Month 2 – separate billing LDC bills current charges for month 2 and ESP bills current charges for month 2 -- separate billing ALL: CUSTOMER RECEIVES TWO (2) OR THREE (3) BILLS One from ESP 1 for previous ESP 1 charges and previous LDC charges One from ESP 1 for current ESP 1 charges One from the LDC for current LDC charges OR One from ESP 1 for current and previous ESP 1 charges and previous LDC charges One from the LDC for current LDC charges

Delaware (Conectiv) Notes

Conectiv rules:	The Conectiv (Delaware) rules are not developed. There have been no meetings to discuss ESP Consolidated Billing. They will be scheduled to determine the business rules and use of this transaction.
Billing information:	Conectiv – Does not currently support ESP Consolidated Billing
Calculating Previous Unpaid Balance	The billing party has the responsibility of calculating the previous unpaid balance, regardless of whether or not the billing party is making the non-billing party whole.
Cancellations	This section needs to be developed.
Bill Ready - Missed Window:	This section needs to be developed.
Budget Billing	This section needs to be developed.
Bill Ready Text (Regulatory and Other)	• Text will be provided in the IT109 "ACCOUNT" loop. The PID segment will be used for passing these texts.

Delaware (Delaware Electric Coop) Notes

Delaware Electric Coop rules:	This transaction does not apply to DEC since the only valid billing option is utility consolidated Rate Ready.

New Jersey Notes

New Jersey: Use of ESP Consolidated Billing	As of 11/1999, New Jersey will not be support ESP Consolidated Billing. When this method must be supported in New Jersey, the appropriate changes will be document. For now, every segment will be marked as "Not Applicable".

Maryland Notes

The Maryland rules are not developed. There have been no meetings to discuss ESP Consolidated Billing. They will be scheduled to determine the business rules and use of this transaction.

Calculating Previous Unpaid Balance	The billing party has the responsibility of calculating the previous unpaid balance, regardless of whether or not the billing party is making the non-billing party whole.
Cancellations:	Not defined
Bill Ready - Missed Window:	Not defined
Budget Billing	Not defined

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 th
3 If either C04005 or C04006 is present, then th
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

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

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

Example: REF*12*2931839200

One or more examples.

Data Element Summary

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

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

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

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

M = Mandatory, O= Optional, X = Conditional

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

1/30 = Minimum 1, Maximum 30

810 Invoice

X12 Structure

Functional Group ID=IN

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	BIG	Beginning Segment for Invoice	M	1		
	050	REF	Reference Identification	O	12		
			LOOP ID - N1			200	
	070	N1	Name	O	1		
	120	PER	Administrative Communications Contact	O	>1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - IT1			200000	
	010	IT1	Baseline Item Data (Invoice)	O	1		
	040	TXI	Tax Information	O	10		
			LOOP ID – PID			1000	
	060	PID	Product/Item Description	O	1		
	120	REF	Reference Identification	O	>1		
	150	DTM	Date/Time Reference	O	10		
			LOOP ID – SLN			1000	
	200	SLN	Subline Item Detail	O	1		
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	25		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Must Use	010	TDS	Total Monetary Value Summary	M	1		
	070	CTT	Transaction Totals	O	1		n1
Must Use	080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

Data Dictionary for ESP Consolidated Billing

Appl Field	*Field Name*	*Description*	*EDI Segment*	*Related EDI Qualifier*	*Data Type*
HEADER LEVEL BILL INFORMATION					
1	Bill Date	Date Bill was issued. For Bill Ready Scenarios, this will be the date the 810 was created.	BIG01		9(8)
2	Bill Number	Unique Number identifying this Bill	BIG02		X(22)
3	Cross Reference Number	The cross reference number originally transmitted in the 867 in the BPT02.	BIG05		X(30)
4	Bill Action Code	"FE" – Memorandum, Final Bill Customer account has finaled with the LDC. "ME" – Memorandum	BIG07		X(2)
5	Bill Purpose	"00" – Original "01" - Cancellation - Cancels an entire Bill "17" - Reversal (Used when cancellation not related to usage) Bill Ready Only "18" - Reissue (Used in combination with Reversal) Bill Ready Only	BIG08		X(2)
6	Original Bill Number	The Bill Number (BIG02) from the Original 810 when sending a cancellation Bill.	REF02	BIG08=**01** or **17** REF01 = **OI**	X(30)
7	ESP Account Number	Customer Account Number assigned by ESP	REF02	REF02 = **11**	X(30)
8	LDC Account Number	LDC Customer Account Number	REF02	REF01 = **12**	X(30)
9	Old Account Number	Previous LDC Customer Account Number	REF02	REF01 = **45**	X(30)
10	Billing Type	Indicates the party that delivers the bill to the end use customer - ESP consolidated Billing (REF02="ESP")	REF02	REF01 = **BLT**	X(3)
11	Billing Calculation Method	Indicates party to calculate bill. - Each calculates their own portion (REF02 ="DUAL")	REF02	REF01 = **PC**	X(4)
12	LDC Name	LDC's Name	N102	N1: N101 = **8S**	X(60)
13	LDC Duns	LDC's DUNS Number or DUNS+4 Number	N104	N1:N101 = **8S** N103 = **1** or **9**	X(13)
14	ESP Name	ESP's Name	N102	N1:N101 = **SJ**	X(60)
15	ESP Duns	ESP's DUNS Number or DUNS+4 Number	N104	N1: N101 = **SJ** N103 = **1** or **9**	X(13)
16	Customer Name	Customer Name	N102	N1: N101 = **8R**	X(35)
17	Store Number	Number assigned by and meaningful to the customer.	N104	N1: N101 = **8R** N103 = **92**	X(20)
ACCOUNT Level IT1 Loop (Used for 1. All Taxes and 2. Charges that are summarized by Account)					
30	Line Item Number	Sequential Line Item Counter	IT101		9(20)
31	Service	Indicates type of service. Will always reflect ELECTRIC	IT107= **ELECTRIC**	IT106 = **SV**	X(8)

32	Category of Charge	RATE - Indicates charges are summarized at an Account level.	IT109 = **ACCOUNT**	IT108 = **C3**	X(5)
33	Tax Type	Account Level Taxes - Please see EDI Guideline for valid values.	TXI01		X(2)
34	Tax Amount	Amount of Tax	TXI02		9(8).99 Explicit Decimal
35	Tax Percent	Percentage of the Tax expressed as a decimal. Example: PA State Sales Tax .06	TXI03		9(1).9(4)
36	Tax Jurisdiction Code	Used to indicated Bill Ready tax.	TXI05 = **D140**	TXI04=**CD**	X(4)
37	Tax Inclusion Flag	Identifies Tax Inclusion Status "A" - Tax should be added when summing the Bill total "O" = Tax should not be added when summing the Bill total	TXI07		X(1)
38	Print Sequencing Number	Determines placement of line items on bill	TXI10		9(2)
39	Text	Freeform text (regulatory or other) to print on bill	PID05	PID01= **F** PID03 = **EU**	X(80)
40	Print section	Indicates print section	PID06 = **R1**		X(2)
41	Print Sequencing Number	Determines placement of line items on bill	PID07		9(2)
42	Service Period Start	Service Period Starting Date	DTM02	DTM01 = **150**	X(8)
43	Service Period End	Service Period Ending Date	DTM02	DTM01 = **151**	X(8)
44	Subline Counter	Sequential Charge Line Item Counter. This segment is used for ANSI purposes and has no relevance in the application system.	SLN01	SLN03 = **A**	9(20)
45	Allowance or charge indicator	"C" - Charge "N" - No Charge or Allowance; should be printed but ignored when summing the total	SAC01 Detail Position 230		X(1)
46	Energy Charge category	Code indicating the type of charge (See Implementation Guide for Valid Values)	SAC04	SAC02= **D140** SAC03=**EU**	X(10)
47	Charge or allowance amount	Dollar amount (credit or debit) for the charge. If dollar amount is negative, the leading negative sign will be sent. If the dollar amount is positive, no leading sign is sent.	SAC05		-9(13)V99 Implied Decimal
48	Payment code	Indicates whether non-billing party should be made whole or paid if customer pays	SAC12 = **05** or **06**		X(2)
49	Print Sequencing Number	Determines placement of line items on bill	SAC13		9(2)
50	Charge Description	Bill Ready: Text description for line item charge that will print on the customer's bill.	SAC15		X(80)

RATE Level IT1 Loop (Used for charges that are summarized by Rate)					
"Mandatory" is meant to reflect Mandatory when using this IT1 Loop					
60	Line Item Number	Sequential Line Item Counter	IT101		9(20)
61	Service	Indicates type of service. Will always reflect ELECTRIC	IT107= **ELECTRIC**	IT106 = **SV**	X(8)
62	Category of Charge	RATE - Indicates charges are summarized at a Rate level.	IT109 = **RATE**	IT108 = **C3**	X(5)
63	LDC Rate Code	LDC Rate Code	REF02	REF01 = **NH**	X(30)
64	LDC Rate Sub-class	LDC Rate Sub-class	REF02	REF01 = **PR**	X(30)
65	Service Period Start	Service Period Starting Date	DTM02	DTM01 = **150**	X(8)
66	Service Period End	Service Period Ending Date	DTM02	DTM01 = **151**	X(8)
67	Subline Counter	Sequential Charge Line Item Counter. This segment is used for ANSI purposes and has no relevance in the application system.	SLN01	SLN03 = **A**	9(20)
68	Allowance or charge indicator	"C" - Charge "N" - No Charge or Allowance; should be printed but ignored when summing the total	SAC01 Detail Position 230		X(1)
69	Energy Charge category	Code indicating the type of charge (See Implementation Guide for Valid Values)	SAC04	SAC02=**D140** SAC03=**EU**	X(10)
70	Charge or allowance amount	Dollar amount (credit or debit) for the charge. If dollar amount is negative, the leading negative sign will be sent. If the dollar amount is positive, no leading sign is sent.	SAC05		-9(13)V99 Implied Decimal
71	Payment code	Indicates whether non-billing party should be made whole or paid if customer pays	SAC12 = **05** or **06**		X(2)
72	Print Sequencing Number	Determines placement of line items on bill	SAC13		9(2)
73	Charge Description	Bill Ready: Text description for line item charge that will print on the customer's bill.	SAC15		X(80)
SUMMARY SECTION					
100	Actual Current Total	The total amount due for this invoice and must equal the sum of the amounts in the TXI02 and SAC05 segments with the exception of any charges that are designated to be ignored in the calculation in the TXI07 or SAC01. If this amount is negative, send the minus sign.	TDS01		-9(13)V99 Implied Decimal
101	Number of IT1 segments	Number of IT1 segments	CTT01		9(6)

Segment:	**ST Transaction Set Header**
Position:	010
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the start of a transaction set and to assign a control number
Syntax Notes:	
Semantic Notes:	**1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:	
PA Use:	Required
NJ Use:	Not Applicable
DE Use for Conectiv:	Required
MD Use:	Required
Example:	ST*810*000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 810 Invoice	**M ID 3/3**
Must Use	**ST02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M AN 4/9**

Segment:	**BIG Beginning Segment for Invoice**
Position:	020
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates
Syntax Notes:	
Semantic Notes:	**1** BIG01 is the invoice issue date. **2** BIG03 is the date assigned by the purchaser to purchase order. **3** BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.
Comments:	**1** BIG07 is used only to further define the type of invoice when needed.
PA Use:	Required
NJ Use:	Not Applicable
DE Use for Conectiv:	Required
MD Use:	Required
Example:	BIG*19980201*19980201123500001***2048392934504**ME*00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**BIG01**	**373**	**Date** Date (CCYYMMDD) Date the bill was created (bill ready).	**M**	**DT 8/8**
Must Use	**BIG02**	**76**	**Invoice Number** Identifying number assigned by issuer	**M**	**AN 1/22**
Must Use	**BIG05**	**76**	**Release Number** Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction The cross-reference number originally transmitted in the 867 in the BPT02 must be sent in the BIG05.	**0**	**AN 1/30**
Must Use	**BIG07**	**640**	**Transaction Type Code** Code specifying the type of transaction FE — Memorandum, Final Bill This is to designate this is the final usage data being sent for this customer. Customer account has finaled with the utility or the customer has switched ME — Memorandum	**O**	**ID 2/2**
Must Use	**BIG08**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 00 — Original 01 — Cancellation Cancels an entire invoice (See Notes section for use by LDC) 17 — Cancel, to be Reissued Reversal – used when 810 cancellation is not related to usage. (See Notes section for use by LDC) 18 — Reissue Used in combination with code 17 – Reversal, to re-bill the charges that were previously reversed. (See Notes section for use by LDC)	**O**	**ID 2/2**

Segment: **REF** **Reference Identification (OI=Original Invoice Number)**
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:

PA Use:	Required
NJ Use:	Not Applicable
DE Use for Conectiv:	Not used
MD Use:	??
Example:	REF*OI*123456789019990102

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification OI — Original Invoice Number Sent when BIG08 = 01 or 17In the original 810, this was provided in the BIG02.	**M**	**ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**AN 1/30**

Segment:	**REF Reference Identification (11=ESP Account Number)**
Position:	050
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	12
Purpose:	To specify identifying information
Syntax Notes:	**1** At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.
Comments:	
PA Use:	Required if it was previously provided to the LDC
NJ Use:	Not Applicable
DE Use for Conectiv:	Conectiv will store ESP account number and will be required to send it if it was previous provided to the LDC. Conectiv will only be storing 20 characters.
MD Use:	Required if it was previously providing to the LDC
Example:	REF*11*395871290

Data Element Summary

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

Segment:	**REF** **Reference Identification (12=LDC Account Number)**
Position:	050
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	12
Purpose:	To specify identifying information
Syntax Notes:	**1** At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.
Comments:	

PA Use:	Required
NJ Use:	Not Applicable
DE Use for Conectiv:	Required
MD Use:	Required
Example:	REF*12*39205810578

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 12 — Billing Account LDC-assigned account number for the end use customer. Must be identical to account number as it appears in the LDC system, excluding punctuation (spaces, dashes, etc.) Significant leading and trailing zeros must be included.	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

Segment:	**REF** **Reference Identification (45=LDC Old Account Number)**
Position:	050
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	12
Purpose:	To specify identifying information
Syntax Notes:	**1** At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.
Comments:	
PA Use:	Required if account number has changed within the last 60 days.
NJ Use:	Not Applicable
DE Use for Conectiv:	Not used – Conectiv will not change LDC Account Number
MD Use:	Only used by APS - Required if account number has changed within the last 60 days.
Example:	REF*45*12394801381

Data Element Summary

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

Segment:	**REF** **Reference Identification (BLT=Billing Type)**
Position:	050
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	12
Purpose:	To specify identifying information
Syntax Notes:	**1** At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.
Comments:	
PA Use:	Required
NJ Use:	Not Applicable
DE Use for Conectiv:	Required
MD Use:	Required
Example:	REF*BLT*LDC

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification BLT Billing Type Identifies the party that sends the bill to the end use customer.	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier When REF01 is BLT, valid values for REF02 are: ESP (meaning the supplier (ESP or third party) bills the customer)	**X AN 1/30**

	IF …				
	Bills the Customer	**Calculates**		**Billing Party**	**Calc. Party**
		LDC Portion	**ESP Portion**	**REF*BLT**	**REF*PC**
ESP Bill Ready	ESP	LDC	ESP	ESP	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 (PC=Bill Calculator)**
Position:	050
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	12
Purpose:	To specify identifying information
Syntax Notes:	**1** At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.
Comments:	
PA Use:	Required
NJ Use:	Not Applicable
DE Use for Conectiv:	Required
MD Use:	Required
Example:	REF*PC*DUAL

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification PC Production Code Identifies the party that calculates the bill.	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier When REF01 is PC, valid values for REF02 are: DUAL (meaning each party calculates their own portion of the charges)	**X AN 1/30**

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

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

Segment: **N1** **Name (8S=LDC Name)**
Position: 070
Loop: N1
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

PA Use:	Required
NJ Use:	Not Applicable
DE Use for Conectiv:	Required
MD Use:	Required
Example:	N1*8S*LDC COMPANY*1*007909411

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) LDC	**M**	**ID 2/3**
Must Use	**N102**	**93**	**Name** Free-form name LDC Company Name	**X**	**AN 1/60**
Must Use	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	**X**	**ID 1/2**
Must Use	**N104**	**67**	**Identification Code** Code identifying a party or other code LDC D-U-N-S Number or D-U-N-S + 4 Number	**X**	**AN 2/80**

Segment: **PER** **Administrative Communications Contact**

Position: 120
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:	Optional: Used to provide utility contact telephone number to explain utility charges. If provided, this number should print on the customer's bill. If this segment is not sent, the billing agent should print the previously supplied utility phone number on the bill.
NJ Use:	Not applicable
DE Use for Conectiv:	Not known
MD Use:	Not known
Examples:	PER*IC**TE*8005559876

Data Element Summary

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

Segment:	**N1** **Name (SJ=ESP Name)**
Position:	070
Loop:	N1
Level:	Heading
Usage:	Optional
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code
Syntax Notes:	**1** At least one of N102 or N103 is required. **2** If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	**1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. **2** N105 and N106 further define the type of entity in N101.
PA Use:	Required
NJ Use:	Not Applicable
DE Use for Conectiv:	Required
MD Use:	Required
Example:	N1*SJ*ESP COMPANY*9*007909422ESP

Data Element Summary

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

Segment:	**N1 Name (8R=Customer Name)**
Position:	070
Loop:	N1
Level:	Heading
Usage:	Optional
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code
Syntax Notes:	**1** At least one of N102 or N103 is required. **2** If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	**1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. **2** N105 and N106 further define the type of entity in N101.

PA Use:	Required
N J Use:	Not Applicable
DE Use for Conectiv:	Required
MD Use:	Required
Example:	N1*8R*JANE DOE*92*2010

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		
			8R — Consumer Service Provider (CSP) Customer End Use Customer		
Must Use	**N102**	**93**	**Name**	**X**	**AN 1/60**
			Free-form name Customer Name as it appears in the LDC System and on the Customer's Bill.		
Optional	**N103**	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67) **Note on Optional Use:** Only sent if LDC is sending Store number in N104. 92 — Assigned by Buyer or Buyer's Agent Reference number meaningful to the customer.		
Optional	**N104**	**67**	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code **Note on Optional Use:** Only sent if LDC is sending Store Number in this field. Reference number meaningful to the customer. Note that this number is assigned by the LDC and may or may not be applicable to the ESP.		

Segment: **IT1** **Baseline Item Data (IT109=ACCOUNT or RATE)**
Position: 010
Loop: IT1
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions
Syntax Notes:
1 If any of IT102 IT103 or IT104 is present, then all are required.
2 If either IT106 or IT107 is present, then the other is required.
3 If either IT108 or IT109 is present, then the other is required.
4 If either IT110 or IT111 is present, then the other is required.
5 If either IT112 or IT113 is present, then the other is required.
6 If either IT114 or IT115 is present, then the other is required.
7 If either IT116 or IT117 is present, then the other is required.
8 If either IT118 or IT119 is present, then the other is required.
9 If either IT120 or IT121 is present, then the other is required.
10 If either IT122 or IT123 is present, then the other is required.
11 If either IT124 or IT125 is present, then the other is required.
Semantic Notes:
1 IT101 is the purchase order line item identification.
Comments:
1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
2 IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:
Note: Please refer to the Notes section in the beginning of the document for specifics on each LDC's Bill Ready data.
Note: IT1 loops may be sent in any order.

ACCOUNT: Used to convey charges that apply to the entire account.
Note: If tax is the only information conveyed in this loop, the SLN and SAC segments should not be sent.

Note: There may only be ONE IT1 ACCOUNT Loop

.
RATE: Used to convey charges that apply to a specific rate. If an account has multiple LDC rate codes, multiple IT109=RATE loops may be sent.

PA Use: Optional
NJ Use: Not Applicable
DE Use for Conectiv: Bill Ready: The ACCOUNT loop is the only loop used.
MD Use: ???
Examples:
IT1*1*****SV*ELECTRIC*C3*ACCOUNT
IT1*1*****SV*ELECTRIC*C3*RATE

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**IT101**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set Sequential Line item counter	**O**	**AN 1/20**
Must Use	**IT106**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) SV Service Rendered	**X**	**ID 2/2**
Must Use	**IT107**	**234**	**Product/Service ID** Identifying number for a product or service	**X**	**AN 1/48**

			ELECTRIC		
Must Use	**IT108**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) C3 Classification	**X**	**ID 2/2**
Must Use	**IT109**	**234**	**Product/Service ID** Identifying number for a product or service ACCOUNT – Indicates that charges pertain to the account level. RATE – Indicates that charges pertain to the rate level	**X**	**AN 1/48**

Segment: **TXI** **Tax Information**
Position: 040
Loop: IT1
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify tax information
Syntax Notes:
1 At least one of TXI02 TXI03 or TXI06 is required.
2 If either TXI04 or TXI05 is present, then the other is required.
3 If TXI08 is present, then TXI03 is required.
Semantic Notes:
1 TXI02 is the monetary amount of the tax.
2 TXI03 is the tax percent expressed as a decimal.
3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.
Comments:

Notes:	Taxes that apply to the Account appear in this IT109=ACCOUNT loop.		
PA Use:	All taxes are provided in the TXI segment in the Account Loop (IT109=ACCOUNT). For Bill Ready, the Gross Receipts Tax and Estimated PA State Tax must be provided by the non-billing party with TXI07 = O (Information Only) for residential customers only. The billing party will query the codes in TXI01 and print these at the appropriate place on the bill.		
	Valid IT1 loops for this segment:	IT109=ACCOUNT	Optional
		IT109=RATE	Not used
NJ Use:	Not Applicable		
DE Use for Conectiv:	Not used in Delaware		
MD Use:	???		
Example:	TXI*ST*2.70**CD*D140**A***2 (Bill Ready Tax)		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**TXI01**	**963**	**Tax Type Code** Code specifying the type of tax ST State Sales Tax CT County Tax GR Gross Receipts Tax MS Estimated PA State Tax	**M**	**ID 2/2**
Must Use	**TXI02**	**782**	**Monetary Amount** Monetary amount	**X**	**R 1/18**
Optional	**TXI03**	**954**	**Percent** Percentage expressed as a decimal Present as **a decimal**, e.g., 6% will be expressed as .06 **Note on Optional Use:** Sender is not required to send percentage.	**X**	**R 1/10**
Must Use	**TXI04**	**955**	**Tax Jurisdiction Code Qualifier** Code identifying the source of the data used in tax jurisdiction code CD Customer Defined	**X**	**ID 2/2**
Must Use	**TXI05**	**956**	**Tax Jurisdiction Code** Code identifying the taxing jurisdiction D140 Bill Ready Actual Tax.	**X**	**AN 1/10**

Must Use	**TXI07**	**662**	**Relationship Code** Code indicating the relationship between entities A — Add The amount in the TXI02 will be added when summing the invoice total. O — Information Only The amount in the TXI02 will be ignored when summing the invoice total.	**O**	**ID 1/1**
Optional	**TXI10**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set Used to assign a print sequencing number to determine the order that the line item will appear on the bill. **Note:** If IT109=ACCOUNT, the sequence number pertains to all taxes and SAC charges within the ACCOUNT loop. **Note on Optional Use:** If no value is sent, the receiving party may print the text in any sequence.	**O**	**AN 1/20**

Segment: **PID** **Product/Item Description**
Position: 060
Loop: PID
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To describe a product or process in coded or free-form format
Syntax Notes:
1 If PID04 is present, then PID03 is required.
2 At least one of PID04 or PID05 is required.
3 If PID07 is present, then PID03 is required.
4 If PID08 is present, then PID04 is required.
5 If PID09 is present, then PID05 is required.

Semantic Notes:
1 Use PID03 to indicate the organization that publishes the code list being referred to.
2 PID04 should be used for industry-specific product description codes.
3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4 PID09 is used to identify the language being used in PID05.

Comments:
1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3 PID07 specifies the individual code list of the agency specified in PID03.

Notes:	Used to provide required IT1 level billing messages.		
PA Use:	Used to pass text from non-billing party to billing party to print on bill.		
	Valid IT1 loops for this segment:	IT109=ACCOUNT	Optional
		IT109=RATE	Not used
NJ Use:	Not Applicable		
DE Use for Conectiv:	??		
MD Use:	??		

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	**PID01**	**349**	**Item Description Type**	**M**	**ID 1/1**
			Code indicating the format of a description		
			F — Free-form		
Must Use	**PID03**	**559**	**Agency Qualifier Code**	**X**	**ID 2/2**
			Code identifying the agency assigning the code values		
			EU — Electric Utilities		
Must Use	**PID05**	**352**	**Description**	**X**	**AN 1/80**
			A free-form description to clarify the related data elements and their content		
Must Use	**PID06**	**752**	**Surface/Layer/Position Code**	**O**	**ID 2/2**
			Code indicating the product surface, layer, or position that is being described		
			R1 — Relative Position 1		
Optional	**PID07**	**822**	**Source Subqualifier**	**O**	**AN 1/15**
			A reference that indicates the table or text maintained by the Source Qualifier		
			This is used to indicate print sequence. **Note:** The sequencing number pertains to the sequence of the text lines only. **Note on Optional Use:** If no value is sent, the receiving party may print the text in any sequence.		

Segment: **REF** **Reference Identification (NH=LDC Rate Code)**
Position: 120
Loop: IT1
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:		See Below		
		Valid IT1 loops for this segment:	IT109=ACCOUNT	Not Used
			IT109=RATE	Required
NJ Use:		Not Applicable		
DE Use for Conectiv:		Not Used		
MD Use:		??		
Example:		REF*NH*RS1		

Data Element Summary

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

Segment: **REF** **Reference Identification (PR=LDC Rate Subclass)**
Position: 120
Loop: IT1
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:	See Below		
	Valid IT1 loops for this segment:	IT109=ACCOUNT	Not Used
		IT109=RATE	Must be sent by utility if this level is maintained in the utility system.
NJ Use:	Not Applicable		
DE Use for Conectiv:	Not Used – not maintained in Conectiv's system		
MD Use:	??		
Example:	REF*PR*123		

Data Element Summary

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

Segment: **DTM** **Date/Time Reference (150=Service Period Start)**
Position: 150
Loop: IT1
Level: Detail
Usage: Optional
Max Use: 10
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:	Must match the service period dates from the 867 transaction.		
	Valid IT1 loops for this segment:	IT109=ACCOUNT	Required – will match dates in PTD*SU loop
		IT109=RATE	Required – Will match dates in PTD*SU loop
NJ Use:	Not Applicable		
DE Use for Conectiv:	Same as PA		
MD Use:	Same as PA		
Example:	DTM*150*19990102		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 150 Service Period Start	**M ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X DT 8/8**

Segment: **DTM** **Date/Time Reference (151=Service Period End)**
Position: 150
Loop: IT1
Level: Detail
Usage: Optional
Max Use: 10
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:	Must match the service period dates from the 867 transaction.		
	Valid IT1 loops for this segment:	IT109=ACCOUNT	Required – will match dates in PTD*SU loop
		IT109=RATE	Required – Will match dates in PTD*SU loop
NJ Use:	Not Applicable		
DE Use for Conectiv:	Same as PA		
MD Use:	Same as PA		
Example:	DTM*151*19990201		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 151 Service Period End	**M ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X DT 8/8**

Segment: **SLN** **Subline Item Detail**
Position: 200
Loop: SLN
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify product subline detail item data
Syntax Notes:
1 If either SLN04 or SLN05 is present, then the other is required.
2 If SLN07 is present, then SLN06 is required.
3 If SLN08 is present, then SLN06 is required.
4 If either SLN09 or SLN10 is present, then the other is required.
5 If either SLN11 or SLN12 is present, then the other is required.
6 If either SLN13 or SLN14 is present, then the other is required.
7 If either SLN15 or SLN16 is present, then the other is required.
8 If either SLN17 or SLN18 is present, then the other is required.
9 If either SLN19 or SLN20 is present, then the other is required.
10 If either SLN21 or SLN22 is present, then the other is required.
11 If either SLN23 or SLN24 is present, then the other is required.
12 If either SLN25 or SLN26 is present, then the other is required.
13 If either SLN27 or SLN28 is present, then the other is required.

Semantic Notes:
1 SLN01 is the identifying number for the subline item.
2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments:
1 See the Data Element Dictionary for a complete list of IDs.
2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:	The IT1/SLN segment (Position 200) is used to overcome the limitation of 25 IT1/SAC loops (Position 180). Each SLN loop will only contain one SAC. Multiple charges/allowances require multiple SLN loops. **Note:** If tax is the only information conveyed in this loop, the SLN and SAC segments should not be sent.		
PA Use:	See Below		
	Valid IT1 loops for this segment:	IT109=ACCOUNT	Required if sending any SAC segments
		IT109=RATE	Required if sending any SAC segments
NJ Use:	Not Applicable		
DE Use for Conectiv:	Required if sending any SAC segments		
MD Use:	Required if sending any SAC segments		
Example:	SLN*1**A		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**SLN01**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set Used as a loop counter	**M**	**AN 1/20**
Must Use	**SLN03**	**662**	**Relationship Code** Code indicating the relationship between entities A Add	**M**	**ID 1/1**

Segment:	**SAC** **Service, Promotion, Allowance, or Charge Information**
Position:	230
Loop:	SLN Optional
Level:	Detail
Usage:	Optional
Max Use:	25
Purpose:	To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge
Syntax Notes:	**1** At least one of SAC02 or SAC03 is required. **2** If either SAC03 or SAC04 is present, then the other is required. **3** If either SAC06 or SAC07 is present, then the other is required. **4** If either SAC09 or SAC10 is present, then the other is required. **5** If SAC11 is present, then SAC10 is required. **6** If SAC13 is present, then at least one of SAC02 or SAC04 is required. **7** If SAC14 is present, then SAC13 is required. **8** If SAC16 is present, then SAC15 is required.
Semantic Notes:	**1** If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required. **2** SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence. **3** SAC08 is the allowance or charge rate per unit. **4** SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge. **5** SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used. **6** SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion. **7** SAC16 is used to identify the language being used in SAC15.
Comments:	**1** SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02. **2** In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes:	Each SLN loop will contain only one SLN and one SAC. Multiple charges/allowances require multiple SLN loops.		
PA Use:	See Below		
Specific rules for PA SAC04 values:	– When SAC04=value for MEAF, SAC12 must equal 06 (remit only if paid by customer) – When SAC04= value for ITC or CTC, SAC01 must equal N (ignore – not included in total, must appear in separate location on bill, as defined by PUC) – See Notes section for use of budget versus actual charges		
	Valid IT1 loops for this segment:	IT109=ACCOUNT	Required
		IT109=RATE	Required
NJ Use:	Not Applicable		
DE Use for Conectiv:	???		
MD Use:	???		
Example:	<u>Bill Ready:</u> SAC*C*D140*EU*DIS001*500*******05*2**500 KWH @ .0100 PER KWH		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**SAC01**	**248**	**Allowance or Charge Indicator** Code which indicates an allowance or charge for the service specified C — Charge N — No Allowance or Charge The amount in the SAC05 will be ignored when summing the invoice total.	**M**	**ID 1/1**
Must Use	**SAC02**	**1300**	**Service, Promotion, Allowance, or Charge Code** D140 — Bill Ready – Actual Charges	**X**	**ID 4/4**
Must Use	**SAC03**	**559**	**Agency Qualifier Code** EU — Electric Utilities	**X**	**ID 2/2**
Must Use	**SAC04**	**1301**	**Energy Charges** **PA: This distinction is used for determining payment posting sequence.** VCR001 — MEAF (Matching Energy Assistance Funds) DIS001 — Distribution Charge SER008 — Advance Metering Charge MSC022 — CTC or ITC SER001 — Transfer fee	**X**	**AN 1/10**
Must Use	**SAC05**	**610**	**Amount** Monetary amount This field stands on its own and will be signed if it is negative. The SAC01is NOT used to determine the sign in the SAC05.	**O**	**N2 1/15**
Conditional	**SAC12**	**331**	**Allowance or Charge Method of Handling Code** Code indicating method of handling for an allowance or charge Used to indicate whether the billing party is to make the non-billing party whole. **Note on Conditional Use:** If charge is marked as "ignore" (SAC01=N), SAC12 should not be sent. 05 — Charge to be paid by vendor. Used when billing agent must make non-billing party whole for this charge. 06 — Charge to be paid by customer Used when billing agent remits only when payment is made by customer. (e.g., $1.00 good neighbor donation)	**O**	**ID 2/2**
Optional	**SAC13**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Used to assign a print sequencing number to determine the order that the line item will appear on the bill. **Note:** If IT109=ACCOUNT, the sequence number pertains to all taxes and SAC charges within the ACCOUNT loop. **Note:** If IT109=RATE, the sequence number pertains to the charges within that RATE loop. **Note on Optional Use:** If no value is sent in this field, the receiver may print the data in any sequence. **Note:** If the billing agent can print specific charges in a different section of the bill then the other charges, this field may be left blank. An example of this is ITC charges.	**X**	**AN 1/30**
Must Use	**SAC15**	**352**	**Description** A free-form description to clarify the related data elements and their content This field represents the line item text field that will print on the bill.	**X**	**AN 1/80**

Segment:	**TDS Total Monetary Value Summary**
Position:	010
Loop:	
Level:	Summary
Usage:	Mandatory
Max Use:	1
Purpose:	To specify the total invoice discounts and amounts
Syntax Notes:	
Semantic Notes:	**1** TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable). **2** TDS02 indicates the amount upon which the terms discount amount is calculated. **3** TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount). **4** TDS04 indicates the total amount of terms discount.
Comments:	**1** TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

Notes:	TDS01 is the total amount due for this invoice and must equal the sum of the amounts in the TXI02 and SAC05 segments with the exception of any charges that are designated to be ignored in the calculation in the TXI07 or SAC01. If this amount is negative, send the minus sign.
PA Use:	Required
NJ Use:	Not Applicable
DE Use for Conectiv:	Same as PA
MD Use:	Required
Example:	TDS*10000 **Note:** This represents $100.00 – there is an implied decimal.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**TDS01**	**610**	**Amount** Monetary amount	**M N2 1/15**

Segment: **CTT** **Transaction Totals**
Position: 070
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes:
1 If either CTT03 or CTT04 is present, then the other is required.
2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
Comments:
1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

PA Use:	Required
NJ Use:	Not Applicable
DE Use for Conectiv:	Required
MD Use:	Required
Example:	CTT*2

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**CTT01**	**354**	**Number of Line Items** Total number of line items in the transaction set The number of IT1 segments.	**M N0 1/6**

Segment:	**SE** **Transaction Set Trailer**
Position:	080
Loop:	
Level:	Summary
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:	
Semantic Notes:	
Comments:	**1** SE is the last segment of each transaction set.
PA Use:	Required
NJ Use:	Not Applicable
DE Use for Conectiv:	Required
MD Use:	Required
Example:	SE*28*000000001

Data Element Summary

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

PA ESP BILL READY EXAMPLES
(LDC only uses ACCOUNT loop)

Scenario #1: Month 1 – Original 810

BIG*19990203* BILL0012345***2048392934504**ME*00	Bill date, unique bill number, and cross reference number to corresponding original 867
REF*12*1234567890	LDC Account number
REF*11*1394959	ESP Account number
REF*BLT*ESP	ESP will consolidate the LDC and ESP charges
REF*PC*DUAL	LDC/ESP will calculate their own charges
N1*8S*LDC UTILITY CO*1*007909411	LDC name and DUNS number
N1*SJ*ESP SUPPLIER CO*9*007909422ESP1	ESP name and DUNS number
N1*8R*CUSTOMER NAME	Customer name as it appears on the customer's bill
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
TXI*ST*3.02**CD*D140**A***3	State Sales Tax for bill ready , charge print sequencing number
TXI*MS*6.45**CD*D140**O***4	Estimated PA Tax for bill ready residential customers only
TXI*GR*2.22**CD*D140**O***5	Gross Receipts Tax for bill ready residential customers only
PID*F**EU**TREE TRIMMING IN YOUR AREA IS SCHEDULED FOR THIS MONTH*R1*1	Text
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C*D140*EU*DIS001*500*******05*1**CUSTOMER CHARGES: $5.00	$5.00/month customer charge for a one-month period
SLN*2**A	Sequential Charge Line Item Counter
SAC*C*D140*EU*DIS001*4539*******05*2**DISTRIBUTION: 1234 KWH AT 3.678¢ PER kWh	Charge indicator, bill ready actual ready indicator, line item amount, rate, unit of measure, measurement, print sequencing number, and charge description.
SLN*3**A	Sequential Charge Line Item Counter
SAC*N*D140*EU*MSC022*500********99**CTC CHARGE: $5.00	CTC Charge: expressed as actual charge with Ignore code
TDS*5341	Total LDC portion billed to customer
CTT*1	Number of IT1 segments

PA ESP BILL READY EXAMPLES
(LDC uses ACCOUNT and RATE loop)

Scenario #1: Month 1 – Original 810

BIG*19990203* BILL0012345***2048392934504**ME*00	Bill date, unique bill number, and cross reference number to corresponding original 867
REF*12*1234567890	LDC Account number
REF*11*1394959	ESP Account number
REF*BLT*ESP	ESP will consolidate the LDC and ESP charges
REF*PC*DUAL	LDC/ESP will calculate their own charges
N1*8S*LDC UTILITY CO*1*007909411	LDC name and DUNS number
N1*SJ*ESP SUPPLIER CO*9*007909422ESP1	ESP name and DUNS number
N1*8R*CUSTOMER NAME	Customer name as it appears on the customer's bill
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
TXI*ST*3.02**CD*D140**A***3	State Sales Tax for bill ready , charge print sequencing number
TXI*MS*6.45**CD*D140**O***4	Estimated PA Tax for bill ready residential customers only
TXI*GR*2.22**CD*D140**O***5	Gross Receipts Tax for bill ready residential customers only
PID*F**EU**TREE TRIMMING IN YOUR AREA IS SCHEDULED FOR THIS MONTH*R1*1	Text
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C*D140*EU*DIS001*500*******05*1**CUSTOME R CHARGES: $5.00	$5.00/month customer charge for a one-month period
IT1*2*****SV*ELECTRIC*C3*RATE	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
REF*NH*RESNH	LDC Rate Code
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential Charge Line Item Counter
SAC*C*D140*EU*DIS001*4539*******05*2**DISTRIBU TION: 1234 KWH AT 3.678¢ PER kWh	Charge indicator, bill ready actual ready indicator, line item amount, rate, unit of measure, measurement, print sequencing number, and charge description.
SLN*2**A	Sequential Charge Line Item Counter
SAC*N*D140*EU*MSC022*500********99**CTC CHARGE: $5.00	CTC Charge: expressed as actual charge with Ignore code
TDS*5341	Total LDC portion billed to customer
CTT*2	Number of IT1 segments

PA ESP BILL READY EXAMPLES
(LDC only uses ACCOUNT loop – send Budget and Actual)

Scenario #1: Month 1 – Original 810

BIG*19990203* BILL0012345***2048392934504**ME*00	Bill date, unique bill number, and cross reference number to corresponding original 867
REF*12*1234567890	LDC Account number
REF*11*1394959	ESP Account number
REF*BLT*ESP	ESP will consolidate the LDC and ESP charges
REF*PC*DUAL	LDC/ESP will calculate their own charges
N1*8S*LDC UTILITY CO*1*007909411	LDC name and DUNS number
N1*SJ*ESP SUPPLIER CO*9*007909422ESP1	ESP name and DUNS number
N1*8R*CUSTOMER NAME	Customer name as it appears on the customer's bill
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
TXI*ST*3.00**CD*D140**A***4	State Sales Tax for bill ready , charge print sequencing number
TXI*MS*6.45**CD*D140**O***5	Estimated PA Tax for bill ready residential customers only
TXI*GR*2.22**CD*D140**O***6	Gross Receipts Tax for bill ready residential customers only
PID*F**EU**TREE TRIMMING IN YOUR AREA IS SCHEDULED FOR THIS MONTH*R1*1	Text
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C*D140*EU*DIS001*5500*******05*1**BUDGET DISTRIBUTION CHARGES	Budget Charge: Charge indicator, bill ready actual ready indicator, charge type, line item amount, payment method, print sequencing number, and charge description.
SLN*2**A	Sequential charge line item counter
SAC*N*D140*EU*MSC022*500********7**CTC CHARGE: $5.00	CTC Charge: expressed as actual charge with Ignore code
SLN*3**A	Sequential charge line item counter
SAC*N*D140*EU*DIS001*500********2**ACTUAL CUSTOMER CHARGES: $5.00	Actual Charges (ignore) $5.00/month customer charge for a one-month period
SLN*4**A	Sequential Charge Line Item Counter
SAC*N*D140*EU*DIS001*4539********3**ACTUAL DISTRIBUTION: 1234 KWH AT 3.678¢ PER kWh	Actual Charges (ignore) Charge indicator, bill ready actual ready indicator, charge type, line item amount, payment method, print sequencing number, and charge description.
TDS*5800	Total LDC portion billed to customer
CTT*1	Number of IT1 segments