Virginia

Implementation Standard

For

Electronic **D**ata **I**nterchange

TRANSACTION SET

810

LDC Consolidated Bill
Ver/Rel 004010

Summary of Changes

August 27, 2001 Version 2-1FINAL	Issue final version 2.1 for 1/1/2002 Open Access.
April 10, 2002 Version 2-11FINAL	Removed those Notes section items which are covered in the VA Plan.
May 8, 2002 Version 2-12 FINAL	Within the Data Dictionary: added METER IT1 level, removed REF*NH (LDC Rate Code) from the RATE IT1 level and removed REF*NH and REF*RB (CSP Rate Code) from the SDID IT1 level. Added SAC02 to SAC segment page – used only by AP and Conectiv.
December 1, 2002 Version 2-2 FINAL	Added notes regarding CSP Consolidated Billing. Cleanup resulting from FREDI reviews: 1) For BIG08, removed code '07' (Duplicate Bill). 2) For REF*OI, removed code '07' (Duplicate Bill). 3) For ITI segment, clarified VA Use greybox comment re SDID loop and removed parenthetic from UNMET example. 4) For SAC04 element, clarified note regarding LDC websites. 5) For SAC10 element, corrected a typo in greybox.
January 28, 2003 Draft Version 2.2.1	Added BARC, Central Virginia, Craig-Botetourt, Mecklenburg, Northern Neck, Shenandoah Valley, and Southside Electric Cooperatives to SAC segment greybox.
February 24, 2003 Draft Version 2.2.2	Changed Cooperative names to acronyms BARC, CVEC, C-BEC, MEC, NNEC, SVEC, and SEC.
March 21, 2003 Version 2.3 Final	Approval for Draft Version 2.2.2

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.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	

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

Notes:	Recommended by UIG
VA Use:	Must be identical to account number as it appears on the customer's bill, excluding punctuation (spaces, dashes, etc.). Significant leading and trailing zeros must be included.

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

Request:	Required
Accept Response:	Required
Reject Response:	Required

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**	**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

Notes

Definitions:	• The term LDC (Local Distribution Company) in this document refers to the utility. • The terms CSP (Competitive Service Provider) and ESP (Energy Service Provider) are currently interchangeable. • The term Billing Window in this document refers to the period which starts on the date of creation of the original 867 (BPT01 - "00") in the sender's application system and ends 3 working days later on the scheduled bill date. The document due date time will be communicated between the parties. • The term Batch Window in this document refers to the period, which starts at the close of an entity's business day, and concludes at the commencement of its next business day. • AEP = American Electric Power • AP = Allegheny Power • MEC = Mecklenburg Electric Cooperative • REC = Rappahannock Electric Cooperative • DVP = Dominion Virginia Power • NOVEC = Northern Virginia Electric cooperative
General Notes	This document is used to define the requirements of the LDC Consolidated Bill which can be used for two purposes: • Sent by LDC to ESP – Used when the LDC calculates the ESP charges, based on the rates provided by the ESP to the LDC. This is referred to as Rate Ready billing. • Sent by ESP to LDC – Used when the ESP calculates its own charges and the charges print on an LDC Consolidated Bill. This is referred to as Bill Ready billing. **Note**: ESP Consolidated Billing is being offered by AEP, AP, Conectiv, DVP, effective January 1, 2003. An EDI 810 transaction is not being used in Virginia for CSP Consolidated Billing at this time. Please refer to the LDC Supplier Coordination Tariffs for information on delivery of LDC billing information to the CSP. Due dates and other payment terms and conditions must be identical for the ESP and LDC charges when either a LDC Consolidated or CSP Consolidated bill is rendered.
Billing Information:	• AEP- Supports Bill Ready Only • All LDCs offer Bill Ready • AP and DVP offer Rate Ready

| VA Plan | Refer to the Electronic Data Transaction Practices for Electric Retail Access in the Commonwealth of Virginia (VAEDT website) for the following topics:

EDI867 Data Content
Cancel / Rebill – After Bill Option Change
Cancel / Rebill – for Previous Supplier for Active Account

LDC Consolidated Billing (Rate Ready)
• Data Flows
• Cancel / Rebill - After a Bill Option Change
• Cancel / Rebill - for Previous Supplier for Active Account
• Cancellation Due to Usage
• Late Payment Charges
• Budget Billing
• Calculating Previous Unpaid Balance

LDC Consolidated Billing (Bill Ready)
• Data Flows
• Sending Mulitple 810's
• Bill Window Missed
• Budget Billing
• Cancel / Rebill – Due to Usage
• Cancel / Rebill – Initiated by Supplier
• Late Payment Charges
• Handling of Overall Negative Supplier Charges
• Printing of Total Amount Due – One Party Has Negative Balance
• Line Items / IT1 Use / Line Sequencing

Dual Billing

CSP Consolidated Billing

Rejection of Customer Billing Transactions |
| | |

| Cancel-ReBill 867-810 Cross-Reference Example | This example is to clarify questions concerning the use of the cross-reference between the 867 and 810 Cancels since wording around the value for the 810 BIG05 field needs some additional explanation in order to be completely explicit. It reads, "The cross-reference number originally transmitted in the 867 in the BPT02 must be sent in the BIG05." |

Some utilities have assumed this to mean the BIG05 value on the cancel 810 should contain the value that was in the <u>original</u> 867 BPT02 field. Other utilities have assumed this to mean the BIG05 value on the cancel 810 should contain the value that was in the <u>cancel</u> 867 BPT02 field. VAEDT has decided to implement the first approach of having the BIG05 value on the cancel 810 contain the value that was in the <u>original</u> 867 BPT02 field.

Listed below are several examples to further elaborate:

~~Rate Ready – Cancel / Rebill due to usage~~

	867 BPT01 or 810 BIG08	867 BPT02	867 BPT09	810 BIG02	810 BIG05	810 REF*OI
Utility sends Usage via 867	00	111				
Utility sends 810 invoice	00			301	111	
Utility cancels usage via 867	01	112	111			
Utility cancels original charge via 810	01			302	**111**	301
Utility sends restated charges via 867	00	113				
Utility sends restated charges via 810	00			303	113	

Bill Ready - Cancel / Rebill due to usage

	867 BPT01 or 810 BIG08	867 BPT02	867 BPT09	810 BIG02	810 BIG05	810 REF*OI
Utility sends Usage via 867	00	111				
Supplier sends 810 invoice	00			301	111	
Utility cancels usage via 867	01	112	111			
Supplier cancels original charge via 810	01			302	**111**	301
Utility sends restated charges via 867	00	113				
Supplier sends restated charges via 810	00			303	113	

Bill Ready - Supplier Initiated cancellation (not related to usage)

Note: Not all utilities have indicated support of Supplier initiated cancellations.

	867 BPT01 or 810 BIG08	867 BPT02	867 BPT09	810 BIG02	810 BIG05	810 REF*OI
Utility sends Usage via 867	00	111				
Supplier sends 810 invoice	00			301	111	
Supplier cancels original charge via 810	17			302	**111**	301
Supplier sends restated charges via 810	18			303	111	

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		
	030	NTE	Note/Special Instruction	O	100		
	050	REF	Reference Identification	O	12		
			LOOP ID - N1			200	
	070	N1	Name	O	1		
	130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		
	212	BAL	Balance Detail	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		
		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 810 LDC Consolidated Bill

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 bill was created. For Rate Ready Scenarios, this will be the date the bill was issued.	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	Note Reference Code	Note reference code for Text for Messages from ESP to Customer	NTE01 = **ADD**		X(5)
7	Text	Text for Messages from ESP to Customer	NTE02	NTE01 = "ADD"	X(80)
8	Original Bill Number identifier	Original Bill Number identifier	REF01 = **OI**		X(2)
9	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)
10	ESP Account number identifier	ESP Account number identifier	REF01 = **11**		X(2)
11	ESP Account Number	Customer Account Number assigned by ESP	REF02	REF01 = "11"	X(30)
12	LDC Account number identifier	LDC Account number identifier	REF01 = **12**		X(2)
13	LDC Account Number	LDC Customer Account Number	REF02	REF01 = "12"	X(30)
14	Old LDC Account number identifier	Old LDC Account number identifier	REF01 = **45**		X(2)
15	Old Account Number	Previous LDC Customer Account Number	REF02	REF01 = "45"	X(30)
16	LDC Billing Cycle identifier	LDC Billing Cycle identifier	REF01 = **BF**		X(2)
17	Billing Cycle	Cycle on which the bill will be rendered. Cycle associated with account.	REF02	REF01 = "BF"	X(2)
18	Billing Type identifier	Billing Type identifier	REF01 = **BLT**		X(3)
19	Billing Type	Indicates the party that delivers the bill to the end use customer - LDC consolidated Billing (REF02="LDC")	REF02	REF01 = "BLT"	X(3)
20	Billing Calculator identifier	Billing Calculator identifier	REF01 = **PC**		X(2)
21	Billing Calculation Method	Indicates party to calculate bill. - LDC calculates bill (REF02 = "LDC") - Each calculates their own portion (REF02 ="DUAL")	REF02	REF01 = "PC"	X(4)

22	Service Delivery Identification (SDID) identifier	SDID identifier	REF01 = **Q5**		X(2)
23	SDID number	Service Delivery Identification Number (SDID number)	REF03	REF01="Q5"	X(80)
24	LDC Name identifier	LDC Name identifier	N101 = **8S**		X(2)
25	LDC Name	LDC's Name	N102	N101 = "8S"	X(60)
26	LDC Duns identifier	Identifier to indicate DUNS or DUNS+4	N103 = **1** or **9**		X(1)
27	LDC Duns	LDC's DUNS Number or DUNS+4 Number	N104	N101 = "8S" N103 = "1" or "9"	X(13)
28	ESP Name code	Code to indicate ESP Name	N101 = **SJ**		X(2)
29	ESP Name	ESP's Name	N102	N101 = "SJ"	X(60)
30	ESP Duns identifier	Identifier to indicate DUNS or DUNS+4	N103 = **1** or **9**		X(1)
31	ESP Duns	ESP's DUNS Number or DUNS+4 Number	N104	N101 = "SJ"	X(13)
32	Customer Name code	Code to indicate Customer Name	N101 = **8R**		X(2)
33	Customer Name	Customer Name	N102	N101 = "8R"	X(35)
34	Customer Reference Number identifier	Customer Reference Number identifier	N103 = **92**		X(2)
35	Store Number	Number assigned by and meaningful to the customer.	N104	N101 = "8R" N103 = "92"	X(20)
36	Due Date	Payment Due Date for Rate Ready only	ITD06		9(8)
37	Balance Type Code	Balance Type Code for Balance as of Last Billing	BAL01 = **P**		X(2)
38	Amount Qualifier Code	Amount Qualifier Code for Balance as of Last Billing	BAL02 = **YB**		X(3)
39	Balance as a Result of Last Billing	Balance of previous period charges prior to applying payments and adjustments for the previous period billing.	BAL03	BAL01 = "P" BAL02 = "YB"	-9(13).99 Explicit Decimal
40	Balance Type Code	Balance Type Code for Balance Prior to Current Billing	BAL01 = **M**		X(2)
41	Amount Qualifier Code	Amount Qualifier Code for Balance Prior to Current Billing	BAL02 = **J9**		X(3)
42	Balance Prior to Current Billing	This is the balance prior to this billing. If a customer is paid in total, this will be zero.	BAL03	BAL01 = "M" BAL02 = "J9"	-9(13).99 Explicit Decimal
43	Balance Type Code	Balance Type Code for Current Balance	BAL01 = **M**		X(2)
44	Amount Qualifier Code	Amount Qualifier Code for Current Balance	BAL02 = **YB**		X(3)
45	Current Balance	Customer total outstanding balance (previous balance plus current charges)	BAL03	BAL01 = "M" BAL02 = "YB"	-9(13).99 Explicit Decimal
46	Balance Type Code	Balance Type Code for Budget Balance	BAL01 = **Y**		X(2)
47	Amount Qualifier Code	Amount Qualifier Code for Budget Balance	BAL02 = **YB**		X(3)
48	Budget Balance	Current Budget Balance including arrearages	BAL03	BAL01 = "Y" BAL02 = "YB"	-9(13).99 Explicit Decimal

ACCOUNT Level IT1 Loop (Used for 1. All Taxes and 2. Charges that are summarized by Account)

49	Line Item Number	Sequential Line Item Counter	IT101		9(20)
50	Product / Service ID Qualifier	Qualifier indicating product / service for Service Rendered	IT106 = **SV**		X(2)
51	Service	Indicates type of service. Will always reflect ELECTRIC	IT107 = **ELECTRIC**	IT106 = "SV"	X(8)
52	Product / Service ID Qualifier	Qualifier indicating product / service	IT108 = **C3**		X(2)
53	Category of Charge	ACCOUNT - Indicates charges are summarized at an Account level.	IT109 = **ACCOUNT**	IT108 = "C3"	X(7)
54	PID Item Description Type	PID Item Description Type	PID01 = **F**		X(1)
55	PID Agency Qualifier Code	PID Agency Qualifier Code	PID03 = **EU**		X(2)
56	PID Description	Text description for charges or as supporting text	PID05	PID01 = **F** PID03= **EU**	X(80)

57	PID Description Type	Indicates relative print location on bill R1 – Text Supporting Current Charges R2 – Additional Supporting Text	PID06		X(2)
58	PID Sequence Number	Determines relative placement of text on bill	PID07		9(2)
59	Service Period Start identifier	Service Period Start identifier	DTM01 = **150**		X(3)
60	Service Period Start	Service Period Starting Date	DTM02	DTM01 = "150"	X(8)
61	Service Period End identifier	Service Period End identifier	DTM01 = **151**		X(3)
62	Service Period End	Service Period Ending Date	DTM02	DTM01 = "151"	X(8)
63	Sub-line 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)
64	Sub-line Relationship Code	Sub-line Relationship Code	SLN03 = **A**		X(1)
65	Allowance or Charge Indicator	"A" - Allowance (Credit to the customer) "C" - Charge "N" - No Charge or Allowance; should be ignored when summing the total	SAC01 Detail Position 230		X(1)
66	Charge Calculation Determinant	Used to differentiate Rate Ready vs. Bill Ready and Actual Charges vs. Budget Billed. Please see EDI guideline for valid codes.	SAC02		X(4)
67	SAC Agency Qualifier Code	SAC Agency Qualifier Code	SAC03 = **EU**		X(2)
68	Energy Charge Category	Code indicating the type of charge (See segment for Valid Values)	SAC04	SAC03="EU"	X(10)
69	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
70	Price Per Unit	ESP/LDC price per unit associated with the charge	SAC08		-9(5).9(6) Max 9 digits
71	Unit of Measure	Unit of measure of above consumption See EDI Guide for valid codes.	SAC09		X(2)
72	Quantity	Consumption or other "unit" for the charge.	SAC10		9(8).9(4)
73	Print Sequencing Number	Determines placement of line items on bill	SAC13		9(2)
74	Charge Description	Bill Ready: Text description for line item charge that will print on the customer's bill. Rate Ready: Text description of the line item charge (refer to SAC04).	SAC15		X(80)

RATE Level IT1 Loop (Used for charges that are summarized by Rate)

75	Line Item Number	Sequential Line Item Counter	IT101		9(20)
76	Product / Service ID Qualifier	Qualifier indicating product / service for Service Rendered	IT106 = **SV**		X(2)
77	Service	Indicates type of service. Will always reflect ELECTRIC	IT107 = **ELECTRIC**	IT106 = "SV"	X(8)
78	Product / Service ID Qualifier	Qualifier indicating product / service	IT108 = **C3**		X(2)
79	Category of Charge	RATE - Indicates charges are summarized at a Rate level.	IT109 - **RATE**	IT108 = "C3"	X(7)
80	ESP Rate Code identifier	ESP Rate Code identifier	REF01= **RB**		X(2)
81	ESP Rate Code	ESP Rate Code	REF02	REF01 = "RB"	X(30)
82	Service Period Start identifier	Service Period Start identifier	DTM01 = **150**		X(3)
83	Service Period Start	Service Period Starting Date	DTM02	DTM01 = "150"	X(8)
84	Service Period End identifier	Service Period End identifier	DTM01 = **151**		X(3)
85	Service Period End	Service Period Ending Date	DTM02	DTM01 = "151"	X(8)

86	Sub-line 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)
87	Sub-line Relationship Code	Sub-line Relationship Code	SLN03 = **A**		X(1)
88	Allowance or Charge Indicator	"A" – Allowance (Credit to the customer) "C" - Charge "N" - No Charge or Allowance; should be ignored when summing the total	SAC01 Detail Position 230		X(1)
89	Charge Calculation Determinant	Used to differentiate Rate Ready vs. Bill Ready and Actual Charges vs. Budget Billed. Please see EDI guideline for valid codes.	SAC02		X(4)
90	SAC Agency Qualifier Code	SAC Agency Qualifier Code	SAC03 = **EU**		X(2)
91	Energy Charge Category	Code indicating the type of charge (See segment for Valid Values)	SAC04	SAC03="EU"	X(10)
92	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
93	Price Per Unit	ESP/LDC price per unit associated with the charge	SAC08		-9(5).9(6) Max 9 digits
94	Unit of Measure	Unit of measure of above consumption. See EDI Guide for valid codes.	SAC09		X(2)
95	Quantity	Consumption or other "unit" for the charge. Not a total consumption.	SAC10		9(8).9(4)
96	Print Sequencing Number	Determines placement of line items on bill	SAC13		9(2)
97	Charge Description	Bill Ready: Text description for line item charge that will print on the customer's bill. Rate Ready: Text description of the line item charge (refer to SAC04).	SAC15		X(80)
	SDID Level IT1 Loop (Used for charges that are summarized by SDID)				
98	Line Item Number	Sequential Line Item Counter	IT101		9(20)
99	Product / Service ID Qualifier	Qualifier indicating product / service for Service Rendered	IT106 = **SV**		X(2)
100	Service	Indicates type of service. Will always reflect ELECTRIC	IT107 = **ELECTRIC**	IT106 = "SV"	X(8)
101	Product / Service ID Qualifier	Qualifier indicating product / service	IT108 = **C3**		X(2)
102	Category of Charge	SDID - Indicates charges are summarized at a SDID level.	IT109 - **SDID**	IT108 = "C3"	X(5)
103	Service Period Start identifier	Service Period Start identifier	DTM01 = **150**		X(3)
104	Service Period Start	Service Period Starting Date	DTM02	DTM01 = "150"	X(8)
105	Service Period End identifier	Service Period End identifier	DTM01 = **151**		X(3)
106	Service Period End	Service Period Ending Date	DTM02	DTM01 = "151"	X(8)
107	Sub-line 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)
108	Sub-line Relationship Code	Sub-line Relationship Code	SLN03 = **A**		X(1)
109	Allowance or Charge Indicator	"A" – Allowance (Credit to the customer) "C" - Charge "N" - No Charge or Allowance; should be ignored when summing the total	SAC01 Detail Position 230		X(1)
110	Charge Calculation Determinant	Used to differentiate Rate Ready vs. Bill Ready and Actual Charges vs. Budget Billed. Please see EDI guideline for valid codes.	SAC02		X(4)

111	SAC Agency Qualifier Code	SAC Agency Qualifier Code	SAC03 = **EU**		X(2)
112	Energy Charge Category	Code indicating the type of charge (See segment for Valid Values)	SAC04	SAC03="EU"	X(10)
113	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
114	Price Per Unit	ESP/LDC price per unit associated with the charge	SAC08		-9(5).9(6) Max 9 digits
115	Unit of Measure	Unit of measure of above consumption. See EDI Guide for valid codes.	SAC09		X(2)
116	Quantity	Consumption or other "unit" for the charge.	SAC10		9(8).9(4)
117	Print Sequencing Number	Determines placement of line items on bill	SAC13		9(2)
118	Charge Description	Bill Ready: Text description for line item charge that will print on the customer's bill. Rate Ready: Text description of the line item charge (refer to SAC04).	SAC15		X(80)
UNMET Level IT1 Loop (Used for charges that are unmetered)					
119	Line Item Number	Sequential Line Item Counter	IT101		9(20)
120	Product / Service ID Qualifier	Qualifier indicating product / service for Service Rendered	IT106 = **SV**		X(2)
121	Service	Indicates type of service. Will always reflect ELECTRIC	IT107 = **ELECTRIC**	IT106 = "SV"	X(8)
122	Product / Service ID Qualifier	Qualifier indicating product / service	IT108 = **C3**		X(2)
123	Category of Charge	UNMET - Indicates charges are for unmetered services.	IT109 = **UNMET**	IT108 = "C3"	X(7)
124	Service Period Start identifier	Service Period Start identifier	DTM01 = **150**		X(3)
125	Service Period Start	Service Period Starting Date	DTM02	DTM01 = "150"	X(8)
126	Service Period End identifier	Service Period End identifier	DTM01 = **151**		X(3)
127	Service Period End	Service Period Ending Date	DTM02	DTM01 = "151"	x(8)
128	Sub-line 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)
129	Sub-line Relationship Code	Sub-line Relationship Code	SLN03 = **A**		X(1)
130	Allowance or Charge Indicator	"A" - Allowance (Credit to the customer) "C" - Charge "N" - No Charge or Allowance; should be ignored when summing the total	SAC01 Detail Position 230		X(1)
131	Charge Calculation Determinant	Used to differentiate Rate Ready vs. Bill Ready and Actual Charges vs. Budget Billed. Please see EDI guideline for valid codes.	SAC02		X(4)
132	SAC Agency Qualifier Code	SAC Agency Qualifier Code	SAC03 = **EU**		X(2)
133	Energy Charge Category	Code indicating the type of charge (See segment for Valid Values)	SAC04	SAC03="EU"	X(10)
134	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
135	Price Per Unit	ESP/LDC price per unit associated with the charge	SAC08		-9(5).9(6) Max 9 digits
136	Unit of Measure	Unit of measure of above consumption See EDI Guide for valid codes.	SAC09		X(2)

137	Quantity	Consumption or other "unit" for the charge. Other unit may be the number of unmetered services.	SAC10		9(8).9(4)
138	Print Sequencing Number	Determines placement of line items on bill	SAC13		9(2)
139	Charge Description	Text description for line item charge that will print on the customer's bill	SAC15		X(80)

METER Level IT1 Loop (Used for charges that are meter related)

140	Line Item Number	Sequential Line Item Counter	IT101		9(20)
141	Product / Service ID Qualifier	Qualifier indicating product / service for Service Rendered	IT106 = **SV**		X(2)
142	Service	Indicates type of service. Will always reflect ELECTRIC	IT107 = **ELECTRIC**	IT106 = "SV"	X(8)
143	Product / Service ID Qualifier	Qualifier indicating product / service	IT108 = **C3**		X(2)
144	Category of Charge	METER - Indicates charges are for metered services.	IT109 = **METER**	IT108 = "C3"	X(7)
145	Service Period Start identifier	Service Period Start identifier	DTM01 = **150**		X(3)
146	Service Period Start	Service Period Starting Date	DTM02	DTM01 = "150"	X(8)
147	Service Period End identifier	Service Period End identifier	DTM01 = **151**		X(3)
148	Service Period End	Service Period Ending Date	DTM02	DTM01 = "151"	x(8)
149	Sub-line 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)
150	Sub-line Relationship Code	Sub-line Relationship Code	SLN03 = **A**		X(1)
151	Allowance or Charge Indicator	"A" - Allowance (Credit to the customer) "C" – Charge "N" - No Charge or Allowance; should be ignored when summing the total	SAC01 Detail Position 230		X(1)
152	Charge Calculation Determinant	Used to differentiate Rate Ready vs. Bill Ready and Actual Charges vs. Budget Billed. Please see EDI guideline for valid codes.	SAC02		X(4)
153	SAC Agency Qualifier Code	SAC Agency Qualifier Code	SAC03 = **EU**		X(2)
154	Energy Charge Category	Code indicating the type of charge (See segment for Valid Values)	SAC04	SAC03="EU"	X(10)
155	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
156	Price Per Unit	ESP/LDC price per unit associated with the charge	SAC08		-9(5).9(6) Max 9 digits
157	Unit of Measure	Unit of measure of above consumption See EDI Guide for valid codes.	SAC09		X(2)
158	Quantity	Consumption for the charge.	SAC10		9(8).9(4)
159	Print Sequencing Number	Determines placement of line items on bill	SAC13		9(2)
160	Charge Description	Text description for line item charge that will print on the customer's bill	SAC15		X(80)

SUMMARY SECTION					
161	Actual Current Total	Total Bill Amount for non-billing party's portion of bill. This does not include arrearages. Even though this segment does not appear at the end of the transaction, it is expected to include all amounts, including those that follow.	TDS01		-9(13)V99 Implied Decimal
162	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:		
VA Use:	Required	
Example:	ST*810*000000001	

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	**ST01**	**143**	**Transaction Set Identifier Code**	**M**	**ID 3/3**
			Code uniquely identifying a Transaction Set		
			810 Invoice		
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:	**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.
VA 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) The date the transaction was issued by the sender's application.	**M**	**DT 8/8**
Must Use	**BIG02**	**76**	**Invoice Number** Identifying number assigned by issuer A unique invoice identification number assigned by the originator of this transaction. This number should be unique over all time.	**M**	**AN 1/22**
Must Use	**BIG05**	**328**	**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.	**O**	**AN 1/30**
Must Use	**BIG07**	**640**	**Transaction Type Code** Code specifying the type of transaction	**O**	**ID 2/2**
			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		
Must Use	**BIG08**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set	**O**	**ID 2/2**
			00 Original		
			01 Cancellation Cancels an entire invoice		
			17 Cancel, to be Reissued Reversal – used when 810 cancellation is not related to usage (Bill Ready only) Only supported by Conectiv.		
			18 Reissue Used in combination with code 17 – Reversal, to re-bill the charges that were previously reversed (Bill Ready only) Only supported by Conectiv.		

Segment:	# NTE Note/Special Instruction
Position:	030
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	100
Purpose:	To transmit information in a free-form format, if necessary, for comment or special instruction
Syntax Notes:	
Semantic Notes:	
Comments:	1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

Notes:	Used for required messages and notices
VA Use:	Optional.
	Note: Not supported by Conectiv.
Example:	NTE*ADD*ESP MESSAGES
	NTE*ADD*LINE TWO OF MESSAGES

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	NTE01	363	**Note Reference Code**	O	ID 3/3
			Code identifying the functional area or purpose for which the note applies		
			ADD Additional Information		
			Text messages from ESP to Customer.		
Must Use	NTE02	352	**Description**	M	AN 1/80
			A free-form description to clarify the related data elements and their content		

Segment:	**REF** Reference Identification	
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.
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.
Comments:		
VA Use:	Required if it was previously provided 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	M	ID 2/3
			11 Account Number		
			Customer Account Number assigned by ESP.		
Must Use	REF02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN 1/30

Segment:	**REF** Reference Identification	
Position:	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.
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.
Comments:		
VA Use:	Required. Not used by AEP.	
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	**M**	**ID 2/3**
			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.		
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**AN 1/30**

Segment:	**REF** Reference Identification	
Position:	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.
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.
Comments:		
Notes:	SDID numbers will only contain uppercase letters (A to Z) and Digits (0 - 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and leading and trailing zeros that are part of the SDID number must be present.	
VA Use:	Required if customer is in AEP service territory	
Example:	REF*Q5**987654	

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	REF01	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	M ID 2/3
			Q5 Property Control Number	
			AEP assigned service delivery identification number	
Must Use	REF03	352	**Description** A free form description to clarify the related data elements and their content AEP assigned service delivery identification number	X AN 1/80

Segment:	**REF** Reference Identification	
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.
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.
Comments:		
VA Use:	Required if account number was changed (refolioed) within the last 60 days. Not used by AEP.	
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	**M**	**ID 2/3**
			45 Old Account Number		
			Previous LDC-assigned account number for the end use customer.		
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**AN 1/30**

Segment:	**REF** Reference Identification	
Position:	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.
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.
Comments:		
VA Use:	BF - Rate Ready: Required	
	Bill Ready: Not Used	
Example:	REF*BF*21	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	REF01	128	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			BF Billing Center Identification		
			Billing cycle. Cycle on which the bill will be rendered. Cycle associated with the account.		
Must Use	REF02	127	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment:	**REF** Reference Identification	
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.
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.
Comments:		
VA Use:	Required if not an Original Invoice (BIG08=01 or 17).	
Example:	REF*OI*123456789019990102	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			OI Original Invoice Number		
			Sent when BIG08 = 01 or 17		
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	
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.
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.
Comments:		
VA Use:	BLT – Required	
Example:	REF*BLT*LDC	

Data Element Summary

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

Code qualifying the Reference Identification

BLT   Billing Type

Identifies whether the LDC or ESP consolidates the bill or whether each party will render its own bill.

	Ref. Des.	Data Element	Name		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 (meaning the utility bills the customer)

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

Segment:	**REF** Reference Identification
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.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
VA Use:	PC - 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	**M**	**ID 2/3**

PC   Production Code

              Identifies the party that calculates the bill.

	Ref. Des.	Data Element	Name		Attributes
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**

When REF01 is PC, valid values for REF02 are:
  LDC (meaning the utility calculates the charges on the bill)
  DUAL (meaning each party calculates their own portion of the charges)

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

Segment:	**N1** 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.

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

Segment:	**N1** 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.
VA 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**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			SJ Service Provider		
			ESP		
Must Use	N102	93	**Name**	**X**	**AN 1/60**
			Free-form name		
			ESP Company Name		
Must Use	N103	66	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			1 D-U-N-S Number, Dun & Bradstreet		
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
Must Use	N104	67	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code		
			ESP D-U-N-S Number or D-U-N-S + 4 Number		

Segment:	**N1** 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	R0203 - At least one of N102 or N103 is required.
	2	P0304 - If either N103 or N104 is present, then the other is required.
Semantic Notes:		
Comments:	1	This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
	2	N105 and N106 further define the type of entity in N101.

VA Use:	Required
Example:	N1*8R*DOE,JANE,N*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.		
Optional	N103	66	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			92 Assigned by Buyer or Buyer's Agent		
			Reference Number meaningful to the customer. Example Store Number. The N103 and N104 are optional only for Rate Ready and are not used for Bill Ready.		
Optional	N104	67	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code		
			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:	**ITD** Terms of Sale/Deferred Terms of Sale	
Position:	130	
Loop:		
Level:	Heading	
Usage:	Optional	
Max Use:	>1	
Purpose:	To specify terms of sale	
Syntax Notes:	**1**	If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.
	2	If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
	3	If ITD09 is present, then at least one of ITD10 or ITD11 is required.
Semantic Notes:	**1**	ITD15 is the percentage applied to a base amount used to determine a late payment charge.
Comments:	**1**	If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.
VA Use:	Rate Ready: Optional	
	Bill Ready: Not Used	
Example:	ITD******19990220	

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	**ITD06**	**446**	**Terms Net Due Date**	**O**	**DT 8/8**
			Date when total invoice amount becomes due expressed in format CCYYMMDD		
			Payment due date.		

Segment:	**BAL** Balance Detail
Position:	212
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	>1
Purpose:	To identify the specific monetary balances associated with a particular account
Syntax Notes:	
Semantic Notes:	
Comments:	
VA Use:	Rate Ready: The following balance is optional (not supported by DVP, AEP, REC, and MEC)
	Balance as a result of Last Billing - Balance of previous period charges prior to applying payments and adjustments for the previous period billing.
	BAL*P*YB*…*
	Bill Ready: Not Used
Example:	BAL*P*YB*500.00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**BAL01**	**951**	**Balance Type Code** Code indicating the type of balance	**M**	**ID ½**
			P Previous Month		
Must Use	**BAL02**	**522**	**Amount Qualifier Code** Code to qualify amount	**M**	**ID 1/3**
			YB Actual Unpaid Principal Balance		
Must Use	**BAL03**	**782**	**Monetary Amount** Monetary amount	**M**	**R 1/18**

Rate Ready Example:

A customer's last bill indicated that they owed a total of $500.00.
The customer paid $275.00 (i.e., they now owe $225.00).
The current billing charges are $100.00 (i.e., they now owe $325.00).

BAL*P*YB*500.00	The amount the customer owed as a result of the previous bill prior to applying payments and adjustments for the previous period billing.
BAL*M*J9*225.00	The amount the customer owed prior to the current billing – BAL*P*YB with payments and adjustments applied.
BAL*M*YB*325.00	The customer's total outstanding balance. This is what the customer owes from previous billing periods plus the current billing charges.

Segment:	**BAL** Balance Detail	
Position:	212	
Loop:		
Level:	Heading	
Usage:	Optional	
Max Use:	>1	
Purpose:	To identify the specific monetary balances associated with a particular account	
Syntax Notes:		
Semantic Notes:		
Comments:		
VA Use:	Rate Ready: The following balance is optional (not supported by DVP, AEP, REC , and MEC) **Balance Prior to Current Billing**. - This is the balance prior to this billing. If a customer is paid in total, this will be zero. BAL*M*J9*…* Bill Ready: Not Used	
Example:	BAL*M*J9*225.00	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
Must Use	BAL01	951	**Balance Type Code** Code indicating the type of balance M Current Month	M	ID 1/2	
Must Use	BAL02	522	**Amount Qualifier Code** Code to qualify amount J9 Beginning Balance	M	ID 1/3	
Must Use	BAL03	782	**Monetary Amount** Monetary amount	M	R 1/18	

Rate Ready Example:

A customer's last bill indicated that they owed a total of $500.00.

The customer paid $275.00 (i.e., they now owe $225.00).

The current billing charges are $100.00 (i.e., they now owe $325.00).

BAL*P*YB*500.00	The amount the customer owed as a result of the previous bill prior to applying payments and adjustments for the previous period billing.
BAL*M*J9*225.00	The amount the customer owed prior to the current billing – BAL*P*YB with payments and adjustments applied.
BAL*M*YB*325.00	The customer's total outstanding balance. This is what the customer owes from previous billing periods plus the current billing charges.

Segment:	**BAL** Balance Detail
Position:	212
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	>1
Purpose:	To identify the specific monetary balances associated with a particular account
Syntax Notes:	
Semantic Notes:	
Comments:	
VA Use:	Rate Ready: The following balance is optional (not supported by DVP, AEP, REC, and MEC)
	Current Total Outstanding Balance - This is what the customer owes from previous billing periods plus the current billing charges.
	BAL*M*YB*…*
	Bill Ready: Not Used
Example:	BAL*M*YB*325.00

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	**BAL01**	**951**	**Balance Type Code** Code indicating the type of balance		M	ID 1/2
			M	Current Month		
Must Use	**BAL02**	**522**	**Amount Qualifier Code** Code to qualify amount		M	ID 1/3
			YB	Actual Unpaid Principal Balance		
Must Use	**BAL03**	**782**	**Monetary Amount** Monetary amount		M	R 1/18

Rate Ready Example:

A customer's last bill indicated that they owed a total of $500.00.
The customer paid $275.00 (i.e., they now owe $225.00).
The current billing charges are $100.00 (i.e., they now owe $325.00).

BAL*P*YB*500.00	The amount the customer owed as a result of the previous bill prior to applying payments and adjustments for the previous period billing.
BAL*M*J9*225.00	The amount the customer owed prior to the current billing – BAL*P*YB with payments and adjustments applied.
BAL*M*YB*325.00	The customer's total outstanding balance. This is what the customer owes from previous billing periods plus the current billing charges.

Segment:	**BAL** Balance Detail
Position:	212
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	>1
Purpose:	To identify the specific monetary balances associated with a particular account
Syntax Notes:	
Semantic Notes:	
Comments:	
VA Use:	Rate Ready: The following balance is optional
	Deferred Plan Balance – This is the deferred budget plan balance for the non-billing party.
	BAL*Y*YB*…*
	Note: This is only used by Allegheny Power, and only used for residential customers who are on a budget plan.
	Bill Ready: Not Used
Example:	BAL*Y*YB*500.00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	BAL01	951	**Balance Type Code** Code indicating the type of balance Y Year to date	M	ID 1/2
Must Use	BAL02	522	**Amount Qualifier Code** Code to qualify amount YB Actual Unpaid Principal Balance	M	ID 1/3
Must Use	BAL03	782	**Monetary Amount** Monetary amount	M	R 1/18

Rate Ready Example:

A customer's last bill indicated that they owed a total of $500.00.

The customer paid $275.00 (i.e., they now owe $225.00).

The current billing charges are $100.00 (i.e., they now owe $325.00).

The current deferred budget plan balance is $250.00 after the current billing.

BAL*P*YB*500.00	The amount the customer owed as a result of the previous bill prior to applying payments and adjustments for the previous period billing.
BAL*M*J9*225.00	The amount the customer owed prior to the current billing – BAL*P*YB with payments and adjustments applied.
BAL*M*YB*325.00	The customer's total outstanding balance. This is what the customer owes from previous billing periods plus the current billing charges.
BAL*Y*YB*250.00	The customer's current outstanding budget balance.

Segment:	**IT1** Baseline Item Data	
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.
VA Use:	At least one IT1 loop required. There may only be one IT1 account loop.	
	IT1 loops may be sent in any order	
	ACCOUNT: Used to convey charges that apply to the entire account. May only have 1 account loop.	
	SDID: Used to convey charges that apply to a service delivery point	
	RATE: Used to convey charges that apply to the rate level	
	UNMET: Used to convey charges that apply to unmetered usage	
	METER: Used to convey charges that apply to the meter level	
	Note: Conectiv only supports ACCOUNT loop. AEP supports only SDID loop.	
Examples:	IT1*1*****SV*ELECTRIC*C3*ACCOUNT	
	IT1*1*****SV*ELECTRIC*C3*SDID	
	IT1*1*****SV*ELECTRIC*C3*RATE	
	IT1*1*****SV*ELECTRIC*C3*UNMET	
	IT1*1*****SV*ELECTRIC*C3*METER	

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	**IT101**	**350**	**Assigned Identification**	**O**	**AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set		
			Sequential Line item counter		
Must Use	**IT106**	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
			SV Service Rendered		
Must Use	**IT107**	**234**	**Product/Service ID**	**X**	**AN 1/48**
			Identifying number for a product or service		
			ELECTRIC		
Must Use	**IT108**	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
			C3 Classification		

| Must Use | IT109 | 234 | **Product/Service ID** | X | **AN 1/48** |

Identifying number for a product or service

ACCOUNT – Indicates that charges pertain to the account level.
SDID – Indicates that charges pertain to the service delivery point level.
(supported by AEP only)
RATE - Indicates that charges are summarized at a rate level.
UNMET - Indicates that charges are for unmetered services.
METER – Indicated that charges are summarized at a meter level.

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.

VA Use: Not used In Rate Ready
Conditionally available by utility in Bill Ready:
- Conectiv – Optional.
- Other LDCS – Not used.

Note: Conectiv will support up to 60 characters in PID05 when PID06=R1 (Text Supporting Current Charges), and Conectiv will support up to 80 characters in PID05 when PID06=R2 (Additional Supporting Text).

Example: PID*F**EU**THIS IS SAMPLE TEXT*R1*01

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		
			R2 Relative Position 2		
Optional	PID07	822	**Source Subqualifier**	O	AN 1/15
			A reference that indicates the table or text maintained by the Source Qualifier		
			Relative sequence number for printing		

Segment:	**REF** Reference Identification	
Position:	120	
Loop:	IT1	
Level:	Detail	
Usage:	Optional	
Max Use:	>1	
Purpose:	To specify identifying information	
Syntax Notes:	1	R0203 - At least one of REF02 or REF03 is required.
Semantic Notes:	2	REF04 contains data relating to the value cited in REF02.
Comments:		
VA Use:	Rate Ready: Required if IT109 is METER (Optional for Bill Ready)	
Example:	REF*MG*12345	

Data Element Summary

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

Segment:	**REF** Reference Identification	
Position:	120	
Loop:	IT1	
Level:	Detail	
Usage:	Optional	
Max Use:	>1	
Purpose:	To specify identifying information	
Syntax Notes:	1	R0203 - At least one of REF02 or REF03 is required.
Semantic Notes:	2	REF04 contains data relating to the value cited in REF02.
Comments:		
VA Use:	Rate Ready: Required if IT109 is RATE (Optional for Bill Ready)	
Example:	REF*RB*A29	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**M**	**ID 2/3**
			RB ESP Rate Code for the Customer		
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
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:	
VA Use:	Rate Ready and Bill Ready: Required Must match the service period dates in PTD*SU loop from the 867 transaction. **Note:** Conectiv does not validate on dates.
Example:	DTM*150*19990102

Data Element Summary

	Ref. Des.	Data Element	Name	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	
Must Use	**DTM02**	**373**	**Date**	X DT 8/8
			Date expressed as CCYYMMDD	

Segment:	**DTM** Date/Time Reference	
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:		
VA Use:	Rate Ready and Bill Ready: Required	
	Must match the service period dates in PTD*SU loop from the 867 transaction.	
	Note: Conectiv does not validate on dates.	
Example:	DTM*151*19990201	

Data Element Summary

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

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.
	Example - IT1,PID, REF,DTM, DTM, SLN, SAC, SLN, SAC, SLN, SAC
	Note: There will be one SLN segment for each SAC.
VA 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**	M	AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set		
			Used as a loop counter		
Must Use	SLN03	662	**Relationship Code**	M	ID 1/1
			Code indicating the relationship between entities		
			A Add		

Segment:	SAC Service, Promotion, Allowance, or Charge Information
Position:	230
Loop:	SLN
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.
VA Use:	Required
	SAC08, 09, 10 are conditional, they must be provided if the charge in the SAC05 is based on a rate. The SAC01, SAC03, SAC04 and SAC05 are mandatory in all cases. If no SAC02 is present, then SAC03 is required. See syntax notes above.
	DVP, REC, BARC, CVEC, C-BEC, MEC, NNEC, SVEC, and SEC: Will ignore SAC15 if it is sent. Description on the bill will be predefined based on the SACO4 code groupings. (Bill Ready only)
	AEP & AP: Will allow maximum 35 characters on SAC15. (Bill Ready only)
	Conectiv: SAC01, 02, 03, 04, 05 are required. SAC13 and SAC15 are optional. SAC15 is used to print text for charges, SAC05 is used for amount to print on bill.
Example:	SAC*C**EU*BAS001*500***5.00*MO*1*****CUSTOMER CHARGE
	SAC*C**EU*GEN004*4539***.03678*KH*1234*****GENERATION CHARGE

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	SAC01	248	**Allowance or Charge Indicator**		M	ID 1/1

Code which indicates an allowance or charge for the service specified

A	Allowance	
C	Charge	
N	No Allowance or Charge	

The amount in the SAC05 will be ignored when summing the invoice total.

A negative charge is not an allowance. Allowance is a credit to the customer, i.e. shopping credit.

Note: For DVP SAC segments where SAC01 = N will not be printed on the bill.

	Ref. Des.	Data Element	Name		Attributes	
Conditional	SAC02	1300	**Service, Promotion, Allowance, or Charge Code**		X	ID 4/4

D140	Bill Ready – Actual Charges	
F950	Rate Ready – Actual Charges	
H151	Rate Ready – Budget Billed Charges	

Condition: Used only by AP and Conectiv

	Ref. Des.	Data Element	Name		Attributes	
Must Use	SAC03	559	**Agency Qualifier Code**		X	ID 2/2
			EU	Electric Utilities		

	Ref. Des.	Data Element	Name		Attributes	
Must Use	SAC04	1301	**Energy Charges**		X	AN 1/10

Code indicating type of charge. See code list on UIG web site at WWW.UIG.ORG

Note: For valid SAC04 codes, refer to LDC web site.

Conectiv: Supports GEN004 and ADJ002. ADJ000 will be ignored if sent.

	Ref. Des.	Data Element	Name		Attributes	
Must Use	SAC05	610	**Amount**		O	N2 1/15

Monetary amount

This field stands on its own and will be signed if it is negative. The SAC01 is NOT used to determine the sign in the SAC05.

	Ref. Des.	Data Element	Name		Attributes	
Conditional	SAC08	118	**Rate**		O	R 1/9

Rate expressed in the standard monetary denomination for the currency specified

Condition:
Required for Rate Ready.
Ignored by all LDCs for Bill Ready.

	Ref. Des.	Data Element	Name		Attributes	
Conditional	SAC09	355	**Unit or Basis for Measurement Code**		X	ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Condition:
Required for Rate Ready.
Ignored by all LDCs for Bill Ready.

99	Watt	
K1	Kilowatt Demand (kW)	

Represents potential power load measured at predetermined intervals

K2	Kilovolt Amperes Reactive Demand (kVAR)	

Reactive power that must be supplied for specific types of customer's equipment; billable when kilowatt demand usage meets or exceeds a defined parameter

K3	Kilovolt Amperes Reactive Hour (kVARH)	

Represents actual electricity equivalent to kilowatt hours;

			billable when usage meets or exceeds defined parameters		
		K4	Kilovolt Amperes (KVA)		
		KH	Kilowatt Hour (kWh)		
		MO	Months		

Conditional	**SAC10**	**380**	**Quantity**	**X**	**R 1/15**

Numeric value of quantity

If IT109="UNMET" SAC10 should = number of unmetered services.
Condition:
Required for Rate Ready.
Ignored by all LDCs for Bill Ready.

Conditional	**SAC13**	**127**	**Reference Identification**	**X**	**AN 1/30**

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

Used to assign a sequencing number to determine the order that the line item should appear on the bill.
Condition: Check with bill presenter to see if print sequence number is used.

Conditional	**SAC15**	**352**	**Description**	**X**	**AN 1/80**

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

Bill Ready: Text description for line item charge that will print on the customer's bill.
Rate Ready: Text description of the line item charge (refer to SAC04).
Condition:
Not used by DVP & REC, Optional for all other utilities.
Conectiv will support up to 48 characters in the SAC15

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, excluding arrearages, and must equal the algebraic sum of the amounts in the SAC05 segments with the exception of any charges that are designated to be ignored in the calculation in the SAC01 (SAC01=N). If this amount is negative, send the minus sign.
VA 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.
VA Use:	Required
Example:	CTT*4

Data Element Summary

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

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.	
VA Use:	Required	
Example:	SE*28*000000001	

Data Element Summary

	Ref. Des.	Data Element	Name	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		

RATE READY EXAMPLES

Scenario #1: Month 1 – Original 810

BIG*19990201*19990201123500001***2048392934504**ME*00	Bill date, unique bill number and cross reference number to corresponding 867
REF*11*1394959	ESP account number
REF*12*1234567890	LDC account number
REF*BF*21	Billing Cycle Number 21
REF*BLT*LDC	LDC will consolidate the ESP and LDC charges
REF*PC*LDC	LDC will calculate all charges (Rate Ready)
N1*8S*LDC UTILITY CO*1*007909411	LDC name and DUNS or DUNS+4 number
N1*SJ*ESP SUPPLIER CO*9*007909422ESP1	ESP name and DUNS or DUNS+4 number
N1*8R*CUSTOMER NAME	Customer's name as it appears on Customer's bill
ITD******19990220	Customer's Payment Due Date
BAL*P*YB*50.00	Amount the customer owed as a result of the previous bill prior to applying payments and adjustments for the previous period billing.
BAL*M*J9*0	The amount the customer owed prior to the current billing – BAL*P*YB with payments and adjustments applied.
BAL*M*YB*50.39	The customer's total outstanding balance. This is what the customer owes from previous billing periods plus the current billing charges.
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*0BAS001*500***5.00*MO*1*****CUSTOMER CHARGE	$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 Rate level
REF*RB*A29	ESP Rate Code
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*GEN004*4539***.03678*KH*1234*****GENERATION CHARGE	1234 kWh * 3.678 cents/kWh = $45.39
TDS*5039	$50.39 Total ESP Portion billed to the customer.
CTT*2	Number of IT1 segments

RATE READY EXAMPLES

Scenario #1: Month 2 – Original 810

BIG*19990301*19990301123500001***2048392934505**ME*00	Bill date, unique bill number and cross reference number to corresponding 867
REF*11*1394959	ESP account number
REF*12*1234567890	LDC account number
REF*BF*21	Billing Cycle Number 21
REF*BLT*LDC	LDC will consolidate the ESP and LDC charges
REF*PC*LDC	LDC will calculate all charges (Rate Ready)
N1*8S*LDC UTILITY CO*1*007909411	LDC name and DUNS or DUNS+4 number
N1*SJ*ESP SUPPLIER CO*9*007909422ESP1	ESP name and DUNS or DUNS+4 number
N1*8R*CUSTOMER NAME	Customer's name as it appears on The customer's bill
ITD******19990320	Customer's Payment Due Date
BAL*P*YB*50.39	Amount the customer owed as a result of the previous bill prior to applying payments and adjustments for the previous period billing.
BAL*M*J9*0	The amount the customer owed prior to the current billing – BAL*P*YB with payments and adjustments applied.
BAL*M*YB*36.89	The customer's total outstanding balance. This is what the customer owes from previous billing periods plus the current billing charges.
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
DTM*150*19990201	Service Period Start
DTM*151*19990228	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*BAS001*500***5.00*MO*1*****CUSTOMER CHARGE	$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 Rate level
REF*RB*A29	ESP Rate Code
DTM*150*19990201	Service Period Start
DTM*151*19990228	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*GEN004*3189***.03678*KH*867*****GENERATION CHARGE	867 kWh * 3.678 cents/kWh = $31.89
TDS*3689	$36.89 Total ESP Portion billed to the customer.
CTT*2	Number of IT1 segments

RATE READY EXAMPLES

Scenario #1: Month 1 – Cancellation 810

BIG*19990315*19990301523500001***2048392934504**ME*01	Bill date, unique bill number and cross reference number to corresponding 867
REF*OI*19990201123500001	Original bill number
REF*11*1394959	ESP account number
REF*12*1234567890	LDC account number
REF*BF*21	Billing Cycle Number 21
REF*BLT*LDC	LDC will consolidate the ESP and LDC charges
REF*PC*LDC	LDC will calculate all charges (Rate Ready)
N1*8S*LDC UTILITY CO*1*007909411	LDC name and DUNS or DUNS+4 number
N1*SJ*ESP SUPPLIER CO*9*007909422ESP1	ESP name and DUNS or DUNS+4 number
N1*8R*CUSTOMER NAME	Customer's name
ITD******19990220	Customer's Payment Due Date
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*BAS001*500***5.00*MO*1*****CUSTOMER CHARGE	$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 Rate level
REF*RB*A29	ESP Rate Code
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*GEN004*4539***.03678*KH*1234*****GENERATION CHARGE	1234 kWh * 3.678 cents/kWh = $45.39
TDS*5039	$50.39 Total ESP Portion billed to the customer.
CTT*2	Number of IT1 segments

RATE READY EXAMPLES

Scenario #1: Month 2 – Cancellation 810

BIG*19990315*19990201123500001***2048392934505**ME*01	Bill date, unique bill number and cross reference number to corresponding 867
REF*OI*19990301123500001	Bill number being cancelled
REF*11*1394959	ESP account number
REF*12*1234567890	LDC account number
REF*BF*21	Billing Cycle Number 21
REF*BLT*LDC	LDC will consolidate the ESP and LDC charges
REF*PC*LDC	LDC will calculate all charges (Rate Ready)
N1*8S*LDC UTILITY CO*1*007909411	LDC name and DUNS or DUNS+4 number
N1*SJ*ESP SUPPLIER CO*9*007909422ESP1	ESP name and DUNS or DUNS+4 number
N1*8R*CUSTOMER NAME	Customer's name
ITD******19990320	Customer's Payment Due Date
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
DTM*150*19990201	Service Period Start
DTM*151*19990228	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*BAS001*500***5.00*MO*1*****CUSTOMER CHARGE	$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 Rate level
REF*RB*A29	ESP Rate Code
DTM*150*19990201	Service Period Start
DTM*151*19990228	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*GEN004*3189***.03678*KH*867*****GENERATION CHARGE	867 kWh * 3.678 cents/kWh = $31.89
TDS*3689	$36.89 Total ESP Portion billed to the customer.
CTT*2	Number of IT1 segments

RATE READY EXAMPLES

Scenario #1: Months 1 & 2 – Original 810 (Restating Months 1 and 2)

BIG*19990315*19990315123500001***2048392934506**ME*00	Bill date, unique bill number and cross reference number to corresponding 867
REF*11*1394959	ESP account number
REF*12*1234567890	LDC account number
REF*BF*21	Billing Cycle Number 21
REF*BLT*LDC	LDC will consolidate the ESP and LDC charges
REF*PC*LDC	LDC will calculate all charges (Rate Ready)
N1*8S*LDC UTILITY CO*1*007909411	LDC name and DUNS or DUNS+4 number
N1*SJ*ESP SUPPLIER CO*9*007909422ESP1	ESP name and DUNS or DUNS+4 number
N1*8R*CUSTOMER NAME	Customer's name
ITD*****19990405	Customer's Payment Due Date
BAL*P*YB*36.89	Amount the customer owed as a result of the previous bill prior to applying payments and adjustments for the previous period billing.
BAL*M*J9*0	The amount the customer owed prior to the current billing – BAL*P*YB with payments and adjustments applied.
BAL*M*YB*90.25	The customer's total outstanding balance. This is what the customer owes from previous billing periods plus the current billing charges.
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
DTM*150*19990101	Service Period Start
DTM*151*19990228	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*BAS001*1000***5.00*MO*2*****CUSTOMER CHARGE	$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 Rate level
REF*RB*A29	ESP Rate Code
DTM*150*19990101	Service Period Start
DTM*151*19990228	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*GEN004*7514***.03678*KH*2043*****GENERATION CHARGE	2043 kWh * 3.678 cents/kWh = $75.14
TDS*8514	$90.25 Total ESP Portion billed to the customer.
CTT*2	Number of IT1 segments

RATE READY EXAMPLES

Scenario #2 Multiple SAC's and Levels

BIG*19990201*19990201123500001***2048392934504**ME*00	Bill date, unique bill number and cross reference number to corresponding 867
REF*11*1394959	ESP account number
REF*12*1234567890	LDC account number
REF*BF*21	Billing Cycle Number 21
REF*BLT*LDC	LDC will consolidate the ESP and LDC charges
REF*PC*LDC	LDC will calculate all charges (Rate Ready)
N1*8S*LDC UTILITY CO*1*007909411	LDC name and DUNS or DUNS+4 number
N1*SJ*ESP SUPPLIER CO*9*007909422ESP1	ESP name and DUNS or DUNS+4 number
N1*8R*CUSTOMER NAME	Customer's name
ITD******19990220	Customer's Payment Due Date
BAL*P*YB*50.00	Amount the customer owed as a result of the previous bill prior to applying payments and adjustments for the previous period billing.
BAL*M*J9*0	The amount the customer owed prior to the current billing – BAL*P*YB with payments and adjustments applied.
BAL*M*YB*98.09	The customer's total outstanding balance. This is what the customer owes from previous billing periods plus the current billing charges.
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*BAS001*500***5.00*MO*1*****CUSTOMER CHARGE	$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 Rate level
REF*RB*A29	ESP Rate Code
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*GEN004*3821***.03821*KH*1000*****GENERATION CHARGE STEP 1	1000 kWh * 3.821 cents/kWh = $38.21
SLN*2**A	
SAC*C**EU*GEN004*3524***.03524*KH*1000*****GENERATION CHARGE STEP 2	1000 kWh * 3.524 cents/kWh = $35.24
SLN*3**A	
SAC*C**EU*GEN004*1588***.03467*KH*458*****GENERATION CHARGE STEP 3	458 kWh * 3.467 cents/kWh = $15.88
IT1*3*****SV*ELECTRIC*C3*UNMET	Sequential Line Item Counter. Also indicates that charges are for unmetered services
REF*RB*A30	ESP Rate Code
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*GEN004*376***.03879*KH*97*****GENERATION CHARGE	97 kWh * 3.879 cents/kWh = $3.76
TDS*9809	$98.09 Total ESP Portion billed to the customer.
CTT*3	Number of IT1 segments

RATE READY EXAMPLES

Scenario #3

BIG*19990201*19990201123500001***2048392934504** ME*00	Bill date, unique bill number and cross reference number to corresponding 867
REF*11*1394959	ESP account number
REF*12*1234567890	LDC account number
REF*BF*21	Billing Cycle Number 21
REF*BLT*LDC	LDC will consolidate the ESP and LDC charges
REF*PC*LDC	LDC will calculate all charges (Rate Ready)
N1*8S*LDC UTILITY CO*1*007909411	LDC name and DUNS or DUNS+4 number
N1*SJ*ESP SUPPLIER CO*9*007909422ESP1	ESP name and DUNS or DUNS+4 number
N1*8R*CUSTOMER NAME	Customer's name
ITD*****19990220	Customer's Payment Due Date
BAL*P*YB*50.00	Amount the customer owed as a result of the previous bill prior to applying payments and adjustments for the previous period billing.
BAL*M*J9*0	The amount the customer owed prior to the current billing – BAL*P*YB with payments and adjustments applied.
BAL*M*YB*52.99	The customer's total outstanding balance. This is what the customer owes from previous billing periods plus the current billing charges.
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*BAS001*500***5.00*MO*1*****CUSTOMER CHARGE	$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 Rate level
REF*RB*A29	ESP Rate Code
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*GTC005*2924***.04039*KH*724*****GENERATION/TRANSMISSION CHARGE ON PEAK	724 kWh * 4.039 cents/kWh = $29.24
SLN*2**A	Sequential charge line item counter
SAC*C**EU*GTC006*1875***.03479*KH*539*****GENERATION/TRANSMISSION CHARGE OFF PEAK	539 kWh * 3.479 cents/kWh = $18.75
TDS*5299	$52.99 Total ESP Portion billed to the customer.
CTT*2	Number of IT1 segments

RATE READY EXAMPLES

Scenario #4

BIG*19990201*19990201123500001***2048392934504**ME*00	Bill date, unique bill number and cross reference number to corresponding 867
REF*11*1394959	ESP account number
REF*12*1234567890	LDC account number
REF*BF*21	Billing Cycle Number 21
REF*BLT*LDC	LDC will consolidate the ESP and LDC charges
REF*PC*LDC	LDC will calculate all charges (Rate Ready)
N1*8S*LDC UTILITY CO*1*007909411	LDC name and DUNS or DUNS+4 number
N1*SJ*ESP SUPPLIER CO*9*007909422ESP1	ESP name and DUNS or DUNS+4 number
N1*8R*CUSTOMER NAME	Customer's name
ITD*****19990220	Customer's Payment Due Date
BAL*P*YB*50.00	Amount the customer owed as a result of the previous bill prior to applying payments and adjustments for the previous period billing.
BAL*M*J9*0	The amount the customer owed prior to the current billing – BAL*P*YB with payments and adjustments applied.
BAL*M*YB*898.27	The customer's total outstanding balance. This is what the customer owes from previous billing periods plus the current billing charges.
IT1*2*****SV*ELECTRIC*C3*RATE	Sequential Line Item Counter. Also indicates that charges are transmitted at a Rate level
REF*RB*A29	ESP Rate Code
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*GEN004*19922***14.23*K1*14*****GENERATION CHARGE	14 kW * $14.23/KW = $199.22
SLN*2**A	Sequential charge line item counter
SAC*C**EU*GEN004*69905***.03128*KH*22348***** GENERATION CHARGE	22348 kWh * 3.128 cents/kWh = $699.05
TDS*89827	$898.27 Total ESP Portion billed to the customer.
CTT*2	Number of IT1 segments

BILL READY EXAMPLES

Scenario #1:   Month 1 – Original 810

BIG*19990203*BILL012345***2048392934504**ME*00	Bill date, unique bill number, and cross reference number to corresponding original 867
NTE*ADD*WE APPECIATE YOUR BUSINESS	ESP text message to customer
NTE*ADD*CONSERVE ENERGY	ESP text message to customer
REF*11*1394959	ESP Account number
REF*12*1234567890	LDC Account number
REF*BLT*LDC	LDC 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
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*BAS001*500***5.00*MO*1*****CUSTOMER 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 charges are transmitted at a rate level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential Charge Line Item Counter
SAC*C**EU*GEN004*4539***.03678*KH*1234*****GENERATION: 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.
TDS*5039	Total ESP portion billed to customer
CTT*2	Number of IT1 segments

BILL READY EXAMPLES

Scenario #1:   Month 2 – Original 810

BIG*19990303*BILL012897***2048392934505**ME*00	Bill date, and unique bill number, and cross reference number to corresponding original 867
NTE*ADD*WE APPECIATE YOUR BUSINESS	ESP text message to customer
NTE*ADD*CONSERVE ENERGY	ESP text message to customer
REF*11*1394959	ESP Account number
REF*12*1234567890	LDC Account number
REF*BLT*LDC	LDC 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
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
DTM*150*19990201	Service Period Start
DTM*151*19990228	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*BAS001*500***5.00*MO*1*****CUSTOMER 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 charges are transmitted at a rate level
DTM*150*19990201	Service Period Start
DTM*151*19990228	Service Period End
SLN*1**A	Sequential Charge Line Item Counter
SAC*C**EU*GEN004*3189***.03678*KH*867*****GENERATION: 867 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.
TDS*3689	Total ESP portion billed to customer
CTT*2	Number of IT1 segments

BILL READY EXAMPLES

Scenario #1: Month 1 – Cancellation 810

BIG*19990315*BILL012377***2048392934504**ME*01	Bill date, unique bill number and cross reference number to corresponding 867
NTE*ADD*WE APPECIATE YOUR BUSINESS	ESP text message to customer
NTE*ADD*CONSERVE ENERGY	ESP text message to customer
REF*OI* BILL012345	Bill number being cancelled
REF*11*1394959	ESP Account number
REF*12*1234567890	LDC Account number
REF*BLT*LDC	LDC 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
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*BAS001*500***5.00*MO*1*****CUSTOMER 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 charges are transmitted at a rate level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential Charge Line Item Counter
SAC*C**EU*GEN004*4539***.03678*KH*1234*****GENERATION: 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.
TDS*5039	Total ESP portion billed to customer
CTT*2	Number of IT1 segments

BILL READY EXAMPLES

Scenario #1: Month 2 – Cancellation 810

BIG*19990315*BILL012378***2048392934505**ME*01	Bill date, unique bill number and cross reference number to corresponding cancel 867
NTE*ADD*WE APPECIATE YOUR BUSINESS	ESP text message to customer
NTE*ADD*CONSERVE ENERGY	ESP text message to customer
REF*OI* BILL0012897	Bill number being cancelled
REF*11*1394959	ESP Account number
REF*12*1234567890	LDC Account number
REF*BLT*LDC	LDC 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
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
DTM*150*19990201	Service Period Start
DTM*151*19990228	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*BAS001*500***5.00*MO*1*****CUSTOMER 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 charges are transmitted at a rate level
DTM*150*19990201	Service Period Start
DTM*151*19990228	Service Period End
SLN*1**A	Sequential Charge Line Item Counter
SAC*C**EU*GEN004*3189***.03678*KH*867*****GENERATION: 867 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.
TDS*3689	Total ESP portion billed to customer
CTT*2	Number of IT1 segments

BILL READY EXAMPLES

Scenario #1:   Months 1 & 2 – Original 810 (restating months 1 and 2)

BIG*19990317*BILL019998***2048392934508**ME*00	Bill date, unique bill number and cross reference number to corresponding restate 867
NTE*ADD*WE APPECIATE YOUR BUSINESS	ESP text message to customer
NTE*ADD*CONSERVE ENERGY	ESP text message to customer
REF*11*1394959	ESP Account number
REF*12*1234567890	LDC Account number
REF*BLT*LDC	LDC 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
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
DTM*150*19990101	Service Period Start
DTM*151*19990228	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*BAS001*1000***5.00*MO*2*****CUSTOMER CHARGES: $10.00	$5.00/month customer charge for a two-month period
IT1*2*****SV*ELECTRIC*C3*RATE	Sequential Line Item Counter – also indicates charges are transmitted at a rate level
DTM*150*19990101	Service Period Start
DTM*151*19990228	Service Period End
SLN*1**A	Sequential Charge Line Item Counter
SAC*C**EU*GEN004*7514***.03678*KH*2043*****GENERATION: 2043 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.
TDS*8514	Total ESP portion billed to customer
CTT*2	Number of IT1 segments

BILL READY EXAMPLES

Scenario #2 – Original 810 with Stepped Rate Charges

BIG*19990203*BILL012345***2048392934504**ME*00	Bill date, unique bill number, and cross reference number to corresponding original 867
NTE*ADD*WE APPECIATE YOUR BUSINESS	ESP text message to customer
NTE*ADD*CONSERVE ENERGY	ESP text message to customer
REF*11*1394959	ESP Account number
REF*12*1234567890	LDC Account number
REF*BLT*LDC	LDC 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
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*BAS001*500***5.00*MO*1***4**CUSTOMER 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 charges are transmitted at a rate level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential Charge Line Item Counter
SAC*C**EU*GEN004*3821***.03821*KH*1000*****GENERATION STEP 1: 1000 KWH @ 3.821¢/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*C**EU*GEN004*3524***.03524*KH*1000*****GENERATION STEP 2: 1000 KWH @ 3.524¢/KWH	
SLN*3**A	Sequential Charge Line Item Counter
SAC*C**EU*GEN004*1588***.03467*KH*458***3**GENERATION STEP 3: 458 KWH @ 3.467¢/KWH	
TDS*9433	Total ESP portion billed to customer
CTT*2	Number of IT1 segments

BILL READY EXAMPLES

Scenario #3 – Original 810 with On and Off Peak Rates

BIG*990203*BILL0012345*****ME*00	Bill date, unique bill number, and cross reference number to corresponding original 867
NTE*ADD*WE APPECIATE YOUR BUSINESS	ESP text message to customer
NTE*ADD*CONSERVE ENERGY	ESP text message to customer
REF*11*1394959	ESP Account number
REF*12*1234567890	LDC Account number
REF*BLT*LDC	LDC 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
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*BAS001*500***5.00*MO*1***3**CUSTOMER 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 charges are transmitted at a rate level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential Charge Line Item Counter
SAC*C**EU*GEN004*2924***.04039*KH*724*****GENERATION: 724 KWH @ 4.039¢ / KWH ON PEAK	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*C**EU*GEN004*1875***.03479*KH*539*****GENERATION: 539 KWH @ 3.479¢ / KWH OFF PEAK	Charge indicator, bill ready actual ready indicator, line item amount, rate, unit of measure, print sequencing number, and charge description.
TDS*5299	Total ESP portion billed to customer
CTT*2	Number of IT1 segments

BILL READY EXAMPLES

Scenario #4 – Original 810 with Adjustment

BIG*19990203*BILL0012345***2048392934504**ME*00	Bill date, unique bill number, and cross reference number to corresponding original 867
NTE*ADD*WE APPECIATE YOUR BUSINESS	ESP text message to customer
NTE*ADD*CONSERVE ENERGY	ESP text message to customer
REF*11*1394959	ESP Account number
REF*12*1234567890	LDC Account number
REF*BLT*LDC	LDC 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
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential charge line item counter
SAC*C**EU*BAS001*500***5.00*MO*1*****CUSTOMER CHARGES: $5.00	$5.00/month customer charge for a one-month period
SLN*2**A	Sequential charge line item counter
SAC*A****-4162***-41.62*MO*1***3**FREE MONTH	Adjustment – credit to customer for this month free
IT1*2*****SV*ELECTRIC*C3*RATE	Sequential Line Item Counter – also indicates charges are transmitted at a rate level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential Charge Line Item Counter
SAC*C**EU*GEN004*3662***.04128*KH*887*****GENERATION: 887 KWH AT 4.128¢ PER KWH	Charge indicator, bill ready actual ready indicator, line item amount, rate, unit of measure, measurement, print sequencing number, and charge description.
TDS*0	Total ESP portion billed to customer
CTT*2	Number of IT1 segments

BILL READY EXAMPLES

Scenario #5 – Original 810 with kWh and Demand Charges

BIG*19990203*BILL0012345***2048392934504**ME*00	Bill date, unique bill number, and cross reference number to corresponding original 867
NTE*ADD*WE APPECIATE YOUR BUSINESS	ESP text message to customer
NTE*ADD*CONSERVE ENERGY	ESP text message to customer
REF*11*1394959	ESP Account number
REF*12*1234567890	LDC Account number
REF*BLT*LDC	LDC 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
IT1*2*****SV*ELECTRIC*C3*RATE	Sequential Line Item Counter – also indicates charges are transmitted at a rate level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential Charge Line Item Counter
SAC*C**EU*GEN004*19922***14.23*K1*14*****GENERATION: 14 KW @ $14.23 / KW	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*C**EU*GEN004*69905***.03128*KH*22348*****GENERATION: 22348 KWH @ 3.128¢ / KWH	Charge indicator, bill ready actual ready indicator, line item amount, rate, unit of measure, measurement, print sequencing number, and charge description.
TDS*89827	Total ESP portion billed to customer
CTT*2	Number of IT1 segments

BILL READY EXAMPLES

Scenario #6 – Metered and Unmetered Services on Same Account

BIG*990203*BILL0012345*****ME*00	Bill date, unique bill number and cross reference number to corresponding original 867
NTE*ADD*WE APPECIATE YOUR BUSINESS	ESP text message to customer
NTE*ADD*CONSERVE ENERGY	ESP text message to customer
REF*11*1394959	ESP Account number
REF*12*1234567890	LDC Account number
REF*BLT*LDC	LDC 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
IT1*2*****SV*ELECTRIC*C3*RATE	Sequential Line Item Counter – also indicates charges are transmitted at a rate level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential Charge Line Item Counter
SAC*C**EU*GEN004*3109***.04075*KH*763*****GENERATION: 763 KWH AT 4.076¢ PER KWH	Charge indicator, bill ready actual ready indicator, line item amount, rate, unit of measure, measurement, print sequencing number, and charge description.
IT1*3*****SV*ELECTRIC*C3*UNMET	Sequential Line Item Counter – also indicates charges are transmitted for unmetered services
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential Charge Line Item Counter
SAC*C**EU*GEN004*196***.04075*KH*48*****STREET LIGHTS: 48 KWH AT 4.075¢ PER KWH	Charge indicator, bill ready actual ready indicator, line item amount, rate, unit of measure, measurement, print sequencing number, and charge description.
TDS*3305	Total ESP portion billed to customer
CTT*3	Number of IT1 segments

BILL READY EXAMPLES

Scenario 7 - ESP reverses 810 and reissues due to an incorrect rate
Month 1 – Original 810

BIG*19990203*BILL0012345***2048392934504**ME*00	Bill date, unique bill number and cross reference number to corresponding original 867
NTE*ADD*WE APPECIATE YOUR BUSINESS	ESP text message to customer
NTE*ADD*CONSERVE ENERGY	ESP text message to customer
REF*11*1394959	ESP Account number
REF*12*1234567890	LDC Account number
REF*BLT*LDC	LDC 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
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential Charge Line Item Counter
SAC*C**EU*BAS001*500***5.00*MO*1*****CUSTOMER 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 charges are transmitted at a rate level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential Charge Line Item Counter
SAC*C**EU*GEN004*4539***.03678*KH*1234*****GENERATION: 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.
TDS*5039	Total ESP portion billed to customer
CTT*2	Number of IT1 segments

BILL READY EXAMPLES

Scenario 7 - ESP reverses 810 and reissues due to an incorrect rate
Month 1 – Reversal 810

BIG*19990203*BILL0012346***2048392934504**ME*01	Bill date, unique bill number, cross reference number to corresponding original 867and reversal indicator
NTE*ADD*WE APPECIATE YOUR BUSINESS	ESP text message to customer
NTE*ADD*CONSERVE ENERGY	ESP text message to customer
REF*OI* BILL0012345	Original Invoice #
REF*11*1394959	ESP Account number
REF*12*1234567890	LDC Account number
REF*BLT*LDC	LDC 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
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential Charge Line Item Counter
SAC*C**EU*BAS001*500***5.00*MO*1*****CUSTOMER 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 charges are transmitted at a rate level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential Charge Line Item Counter
SAC*C**EU*GEN004*4539***.03678*KH*1234*****GENERATION: 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.
TDS*5039	Total ESP portion billed to customer
CTT*2	Number of IT1 segments

BILL READY EXAMPLES

Scenario 7 - ESP reverses 810 and reissues due to an incorrect rate
Month 1 – Reissue 810

BIG*19990203*BILL0012345***2048392934504**ME*00	Bill date, and unique bill number, and cross reference number to corresponding original 810 and reissue indicator
NTE*ADD*WE APPECIATE YOUR BUSINESS	ESP text message to customer
NTE*ADD*CONSERVE ENERGY	ESP text message to customer
REF*11*1394959	ESP Account number
REF*12*1234567890	LDC Account number
REF*BLT*LDC	LDC 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
IT1*1*****SV*ELECTRIC*C3*ACCOUNT	Sequential Line Item Counter. Also indicates that charges are transmitted at a Account level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential Charge Line Item Counter
SAC*C**EU*BAS001*500***5.00*MO*1*****CUSTOMER 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 charges are transmitted at a rate level
DTM*150*19990101	Service Period Start
DTM*151*19990131	Service Period End
SLN*1**A	Sequential Charge Line Item Counter
SAC*C**EU*GEN004*1234***.10*KH*1234*****GENERATION: 1234 KWH AT 10¢ PER KWH	Charge indicator, bill ready actual ready indicator, line item amount, rate, unit of measure, measurement print sequencing number, and charge description.
TDS*1239	Total ESP portion billed to customer
CTT*2	Number of IT1 segments