# Hansen Technologies Implementation Guideline

for

## Electronic Data Interchange

TRANSACTION SET

810 Customer Invoice

Ver/Rel 004010

**Outbound from Energy Supplier to Customer** 

### **Summary of Changes**

April 28, 2017

• Initial Release.

#### **Implementation Notes**

Payments Must be Made Electronically

Payments Must be Made using the Customer Account Number (REF\*11) or Invoice Number (BIG02)

Zero Bills

TDS (Total) Segment

Corrected Bills

Total Payments and Credits (BAL\*P\*TP) Segment

997 Functional Acknowledgements

- Payments for all bills that are sent via EDI must be made electronically. To set up Electronic Funds Transfer (EFT), please contact Brian Stastny – Brian.Stastny@hsntech.com.
- The Invoice Number on the EDI Invoice, in element BIG02, is made up of the 10-digit Customer Account Number and the Invoice Date. This complete number, or the Customer Account Number, also located in segment REF\*11, may be used to remit payment.
- The Utility Account Number or Electric Service Identifier, in segment REF\*12 or REF\*45, may **not** be used to remit payment.
- When an account has no current period charges and 0 usage, a bill will not be generated. If there are utility charges or customer charges, a bill will be generated even if usage is 0.
- The TDS (Total Segment) will show the amount that you are expected to remit. This amount is taken directly from the billing system and is not calculated from the EDI segments.
- When the account has a Prior Balance, and the amount is a debit (i.e., the previous month's bill remains unpaid), the TDS will reflect the Total Amount Due **including the prior balance**. The prior balance is shown in the BAL\*M\*J9 segment.

Please ensure that your systems are set up to recognize that the prior balance is included in the TDS, especially in cases when the net due days are greater than the typical bill cycle and therefore recent payments may not yet be reflected on the account.

- When the account has a Prior Balance, and after current period charges, the amount remains a credit (i.e., the account has been overpaid or adjustments applied causing the account balance to be negative), the TDS will show the negative amount. No payment is expected for the account for that bill. The balance prior to current period charges is shown in the BAL\*M\*J9 segment.
- When the account has a Prior Balance that is a credit less than the current period charges, the credit will be applied to the total and the TDS will reflect the current amount due (current period charges less the prior credit balance).
- In the event of a cancel/rebill situation, a corrected bill will be sent with an indicator in BIG08 of "CO" Corrected. There may be several of these invoices that occur one period per night. If the reads were overestimated and the original invoices were paid, this will result in a credit on the account. If the reads were underestimated, the corrected bill will show the amount due.
- The credit for the original bill will appear along with the payments in the BAL\*P\*TP segment.
- Please note that the BAL\*P\*TP contains all credits to the account, including
  payments and any adjustments that result from the utility cancelling and
  rebilling the account.
- 997 Functional Acknowledgments are required.

#### **Introduction:**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

#### **Heading:**

M	Pos. <u>No.</u> 010	Seg. <u>ID</u> ST	<u>Name</u> Transaction Set Header	Req. <u>Des.</u> M	Max.Use	Loop <u>Repeat</u>	Notes and Comments
M	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	О	1		
	080	N2	Additional Name Information	O	2		
	090	N3	Address Information	O	2		
	100	N4	Geographic Location	O	1		
	110	REF	Reference Identification	O	12		
	120	PER	Administrative Communications Contact	O	3		
	130	ITD	Terms of Sale/Deferred Terms of Sale	О	>1		
	212	BAL	Balance Detail	O	>1		

#### **Detail:**

Pos. No.	Seg. <u>ID</u>	Name	Req. Des.	Max.Use	Loop <u>Repeat</u>	Notes and Comments	
		LOOP ID - IT1			200000		
010	IT1	Baseline Item Data (Invoice)	О	1			
040	TXI	Tax Information	O	10			
059	MEA	Measurements	O 40				
120	REF	Reference Identification	O >1				
150	DTM	Date/Time Reference	O	10			
		LOOP ID - SLN			1000		
200	SLN	Subline Item Detail	О	1			
230	SAC	Service, Promotion, Allowance, or Charge Information	0	25			

#### **Summary:**

M	Pos. <u>No.</u> 010	Seg. <u>ID</u> TDS	Name Total Monetary Value Summary	Req. <u>Des.</u> M	Max.Use	Loop <u>Repeat</u>	Notes and Comments
	070	CTT	Transaction Totals	O	1		n1
M	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.

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:** 

**Notes:** 

Required

ST~810~102001

Must Use	Ref. Des. ST01	Data Element 143	Name Transaction Set Identifier Code	Attr M	ributes 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 tra functional group assigned by the originator for a transaction s		ion set

Segment: BIG Beginning Segment for Invoice

**Position:** 020

Loop:

Level: Heading Usage: Mandatory

Max Use:

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

1 BIG07 is used only to further define the type of invoice when needed.

**Notes:** Required

BIG~20070630~004300450020070630~~~~PR~00

	D.C	D-4-	Duta Elen	ient Summar y		
	Ref. Des.	Data Element	<u>Name</u>		Attr	ibutes
Must Use	BIG01	373	Date		M	DT 8/8
			Date expressed as 0	CCYYMMDD		
			Invoice Date			
Must Use	BIG02	76	Invoice Number		M	AN 1/22
			Identifying number	assigned by issuer		
			This will be a conc	atenation of the customer account number	and t	the invoice
				que number. This complete number, or si	mply	the customer
Must Use	BIG07	640		ay be returned on the payment.	M	ID 2/2
Must Use	DIGU/	040	Transaction Type		IVI	11) 2/2
			1 , 0	e type of transaction		
			FB	Final Bill		
			PR	Product (or Service)		
Must Use	BIG08	353	Transaction Set P	urpose Code	M	ID 2/2
			Code identifying pr	urpose of transaction set		
			00	Original		
			CO	Corrected		

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: Optional

NTE~ADD~ADDITIONAL INFORMATION PROVIDED HERE

#### **Data Element Summary**

			Data E	dement Summary		
	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Attr	<u>ributes</u>
Must Use	NTE01	363	Note Reference	e Code	M	ID 3/3
			Code identifyin	g the functional area or purpose for which th	e note	applies
			ADD	Additional Information		
Must Use	NTE02	352	Description		$\mathbf{M}$	AN 1/80
			A free-form des	scription to clarify the related data elements a	nd the	eir content

7

 $REF \ \ Reference \ Identification \ (Customer \ Account \ Number)$ **Segment:** 

**Position:** 050

Loop:

Level: Heading Optional Usage: Max Use: 12

**Purpose:** To specify identifying information

**Syntax Notes:** At least one of REF02 or REF03 is required.

> If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.

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

**Notes:** Required

REF~11~0043004500

#### **Data Element Summary**

Must Use	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference	Identification Qualifier	Attı M	ributes ID 2/3
			Code quali	fying the Reference Identification		
			11	Account Number		
				Customer Account Number		
Must Use	REF02	127	Reference	Identification	X	AN 1/30
				information as defined for a particular Transaction	ı Set o	or as

specified by the Reference Identification Qualifier

Customer Account Number - This number, or the complete invoice number in

BIG02, may be returned on the payment.

**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.

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

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

**Comments:** 

**Notes:** 

Required - Either a Utility Account Number or an Electric Service Identifier will be used depending on the competitive market. At this time only the Texas market uses the ESI

ID.

REF~12~0043004500

REF~Q5~~10400511944458280001

	Dof	Doto	Data Eleme	ent Summary		
Must Use	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identific	ation Qualifier		ibutes ID 2/3
			Code qualifying the	Reference Identification		
			12	Billing Account		
				Utility Account Number or Electric Serv(ESI ID)	vice Io	dentifier
			Q5	Property Control Number		
				Electric Service Identifier (ESI ID)		
Dep	REF02	127	Reference Identific	ation	X	AN 1/30
				on as defined for a particular Transaction erence Identification Qualifier	Set o	r as
			Required if market unot used.	uses a Utility Account Number for the cus	stome	r, otherwise
Dep	REF03	352	Description		X	AN 1/80
			A free-form descript	tion to clarify the related data elements ar	nd the	ir content
			•	uses an Electric Service Identifier (ESI ID not used. The ESI ID may be up to 36 c.		

 $Segment: \qquad N1 \ \ Name \ (Billing \ Name)$ 

**Position:** 070

Loop: N1 Optional

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.

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.

N105 and N106 further define the type of entity in N101.

**Notes:** Required

N1~BT~BILLING NAME

Must Use	Ref. <u>Des.</u> N101	Data <u>Element</u> 98	Name Entity Identifier (	Code	Attı M	ributes ID 2/3
			Code identifying a individual BT	n organizational entity, a physical location, Bill-to-Party	, prop	perty or an
Must Use	N102	93	Name Free-form name Billing Name		X	AN 1/60

 ${\bf Segment:} \qquad {\bf N2} \ \ {\bf Additional} \ \ {\bf Name} \ \ {\bf Information} \ ({\bf Billing} \ {\bf Name})$ 

**Position:** 080

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 2

**Purpose:** To specify additional names or those longer than 35 characters in length

Syntax Notes: Semantic Notes:

**Comments:** 

Notes: Optional

N2~BILLING NAME CARRYOVER

**Data Element Summary** 

Free-form name

Billing Name Carryover

N3 Address Information (Billing Address) **Segment:** 

**Position:** 090

Loop: N1 Optional

Level: Heading Usage: Optional Max Use:

**Purpose:** To specify the location of the named party

Syntax Notes: Semantic Notes: **Comments:** 

**Notes:** Required

N3~1234 MAIN STREET~PO BOX 1001

Must Use	Ref. <u>Des.</u> N301	Data <u>Element</u> 166	Name Address Information	<u>Attributes</u> M AN 1/55
			Address information	
	N302	166	<b>Address Information</b>	O AN 1/55
			Address information	

Segment: N4 Geographic Location (Billing Address)

**Position:** 100

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named partySyntax Notes: 1 If N406 is present, then N405 is required.

**Semantic Notes:** 

Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to

specify a location.

2 N402 is required only if city name (N401) is in the U.S. or Canada.

**Notes:** Required

N4~ANYTOWN~TX~75111

	Ref.	Data	v		
	Des.	<b>Element</b>	Name	Attı	<u>ributes</u>
Must Use	N401	19	City Name	O	AN 2/30
			Free-form text for city name		
Must Use	N402	156	State or Province Code	O	ID 2/2
			Code (Standard State/Province) as defined by appropriate go	vernn	nent agency
Must Use	N403	116	Postal Code	O	ID 3/15
			Code defining international postal zone code excluding punc (zip code for United States)	tuatio	n and blanks

Segment: N1 Name (Remittance Name)

**Position:** 070

Loop: N1 Optional

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.

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.

N105 and N106 further define the type of entity in N101.

Notes: Required

N1~RE~REMITTANCE NAME~9~879711161RMTO

Code identifying an organizational entity, a physical location, property or an individual RE Party to receive commercial invoice remittance  Must Use N102 93 Name X AN 1/60 Free-form name  Remittance 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)	Must Use
Free-form name  Remittance Name  Must Use N103 66 Identification Code Qualifier X ID 1/2  Code designating the system/method of code structure used for Identification	
Remittance Name  Must Use N103 66 Identification Code Qualifier X ID 1/2  Code designating the system/method of code structure used for Identification	Must Use
Must Use N103 66 Identification Code Qualifier X ID 1/2 Code designating the system/method of code structure used for Identification	
Code designating the system/method of code structure used for Identification	
The state of the s	<b>Must Use</b>
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	Must Use
Code identifying a party or other code	
DUNS+4 of the Party to Receive Remittance	

Segment: N3 Address Information (Remittance Address)

**Position:** 090

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 2

**Purpose:** To specify the location of the named party

Syntax Notes: Semantic Notes: Comments:

Notes:

Required

N3~PO BOX 1111

Must Use	Ref. <u>Des.</u> N301	Data <u>Element</u> 166	Name Address Information	<u>Attributes</u> M AN 1/55
			Address information	
	N302	166	<b>Address Information</b>	O AN 1/55
			Address information	

Segment: N4 Geographic Location (Remittance Address)

**Position:** 100

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.

**Semantic Notes:** 

Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to

specify a location.

2 N402 is required only if city name (N401) is in the U.S. or Canada.

**Notes:** Required

N4~ANYTOWN~PA~18102-1111

	Ref.	Data Element	Name	A 441	ributes
	Des.			Atti	
Must Use	N401	19	City Name	О	AN 2/30
			Free-form text for city name		
Must Use	N402	156	State or Province Code	O	ID 2/2
			Code (Standard State/Province) as defined by appropriate go	vernn	nent agency
Must Use	N403	116	Postal Code	O	ID 3/15
			Code defining international postal zone code excluding punc (zip code for United States)	tuatio	n and blanks

**Position:** 110

Loop: N1 Optional

Level: Heading Usage: Optional Max Use: 12

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

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

**Notes:** Optional

REF~TJ~95-4114811

Must Use	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference Identification Qualifier		ributes ID 2/3
			Code qualifying the Reference Identification  TJ Federal Taxpayer's Identification Numb	er	
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier Federal Tax ID	X Set o	<b>AN 1/30</b> or as

Segment: N1 Name (Energy Supplier Name)

**Position:** 070

Loop: N1 Optional

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.

N105 and N106 further define the type of entity in N101.

**Notes:** Required

N1~SJ~ENERGY SUPPLIER~9~879711161ESP1

Must Use	Ref. <u>Des.</u> N101	Data Element 98	Name Entity Identifier Co	ode	Attr M	ributes ID 2/3	
			Code identifying an individual	Code identifying an organizational entity, a physical location, providual			
			SJ	Service Provider			
				Energy Supplier			
Must Use	N102	93	Name		X	AN 1/60	
			Free-form name				
			Energy Supplier Name				
Must Use	N103	66	<b>Identification Code</b>	e Qualifier	X	ID 1/2	
			Code designating the Code (67)	e system/method of code structure used for	or Ide	entification	
			1	D-U-N-S Number, Dun & Bradstreet			
			9	D-U-N-S+4, D-U-N-S Number with For Suffix	ır Ch	aracter	
Must Use	N104	67	<b>Identification Code</b>		X	AN 2/80	
			Code identifying a p	party or other code			
			DUNS+4 of the Ene	ergy Supplier			

Segment: N3 Address Information (Energy Supplier Address)

**Position:** 090

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 2

**Purpose:** To specify the location of the named party

Syntax Notes: Semantic Notes:

**Comments:** 

Notes: Required

N3~PO BOX 9999

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

Segment: N4 Geographic Location (Energy Supplier Address)

**Position:** 100

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.

**Semantic Notes:** 

Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to

specify a location.

2 N402 is required only if city name (N401) is in the U.S. or Canada.

**Notes:** Required

N4~ANYTOWN~ME~04360-9999

	Ref. Des.	Data <u>Element</u>	Name	Attr	ibutes
Must Use	N401	19	City Name	O	AN 2/30
			Free-form text for city name		
Must Use	N402	156	State or Province Code	O	ID 2/2
			Code (Standard State/Province) as defined by appropriate go	vernn	nent agency
Must Use	N403	116	Postal Code	O	ID 3/15
			Code defining international postal zone code excluding punc (zip code for United States)	tuatio	n and blanks

 $\textbf{Segment:} \quad \textbf{PER} \ \, \textbf{Administrative Communications Contact (Energy Supplier)}$ 

**Position:** 120

Loop: N1 Optional

Level: Heading Usage: Optional Max Use: 3

**Purpose:** To identify a person or office to whom administrative communications should be directed

**Syntax Notes:** 1 If either PER03 or PER04 is present, then the other is required.

If either PER05 or PER06 is present, then the other is required.

3 If either PER07 or PER08 is present, then the other is required.

**Semantic Notes:** Comments:

**Notes:** Optional

PER~IC~CUSTOMER SERVICE~TE~1-888-555-9000~EM~www.company.com

	Ref.	Data		•			
	Des.	<b>Element</b>	<u>Name</u>		Attı	<u>ributes</u>	
Must Use	PER01	366	Contact Fund	Contact Function Code			
			Code identifyi	ing the major duty or responsibility of the perso	on or	group named	
			IC	Information Contact			
	PER02	93	Name		O	AN 1/60	
			Free-form nan	me			
	PER03	365	Communicat	ion Number Qualifier	$\mathbf{X}$	ID 2/2	
			Code identifyi	ing the type of communication number			
			TE	Telephone			
	PER04	364	Communicati	ion Number	$\mathbf{X}$	AN 1/80	
			Complete com applicable	nmunications number including country or area	code	when	
			Telephone Nu	ımber			
	PER05	365	Communicat	ion Number Qualifier	X	ID 2/2	
			Code identifyi	ing the type of communication number			
			EM	Electronic Mail			
				Email or Website			
	PER06	364	Communicati	ion Number	X	AN 1/80	
			Complete com applicable	nmunications number including country or area	code	when	
			Email or Web	site			

Segment: N1 Name (Utility Name)

**Position:** 070

Loop: N1 Optional

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.

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.

N105 and N106 further define the type of entity in N101.

**Notes:** Required

N1~8S~UTILITY DISTRIBUTION CO~1~007909111

Must Use	Ref. <u>Des.</u> N101	Data Element 98	Name Entity Identifier Co	ode	Attr M	ributes ID 2/3
			Code identifying an individual 8S	organizational entity, a physical location, Consumer Service Provider (CSP) Utility	prop	erty or an
Must Use	N102	93	Name Free-form name	Cunty	X	AN 1/60
Must Use	N103	66	Utility Name  Identification Code Qualifier  Code designating the system/method of code structure used for Identification Code (67)  1 D-U-N-S Number, Dun & Bradstreet			ID 1/2 entification
Must Use	N104	67	9  Identification Code Code identifying a p DUNS or DUNS+4		ır Ch X	AN 2/80

Segment: N3 Address Information (Utility Address)

**Position:** 090

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 2

**Purpose:** To specify the location of the named party

Syntax Notes: Semantic Notes: Comments:

Notes: Optional

N3~101 UTILITY DRIVE

Must Use	Ref. <u>Des.</u> N301	Data <u>Element</u> 166	Name Address Information	<u>Attributes</u> M AN 1/55
			Address information	
	N302	166	<b>Address Information</b>	O AN 1/55
			Address information	

Segment: N4 Geographic Location (Utility Address)

**Position:** 100

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.

**Semantic Notes:** 

Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to

specify a location.

N402 is required only if city name (N401) is in the U.S. or Canada.

Notes: Optional

N4~ANYTOWN~TX~78999

Ref.	Data			
Des.	<b>Element</b>	<u>Name</u>	Attı	<u>ributes</u>
N401	19	City Name	O	AN 2/30
		Free-form text for city name		
N402	156	State or Province Code	O	ID 2/2
		Code (Standard State/Province) as defined by appropriate go	vernn	nent agency
N403	116	Postal Code	O	ID 3/15
		Code defining international postal zone code excluding punctivity code for United States)	uatio	n and blanks

 $\textbf{Segment:} \quad \textbf{PER} \ \, \textbf{Administrative Communications Contact (Utility)}$ 

**Position:** 120

Loop: N1 Optional

Level: Heading Usage: Optional Max Use: 3

**Purpose:** To identify a person or office to whom administrative communications should be directed

**Syntax Notes:** 1 If either PER03 or PER04 is present, then the other is required.

2 If either PER05 or PER06 is present, then the other is required.

3 If either PER07 or PER08 is present, then the other is required.

**Semantic Notes:** Comments:

**Notes:** Optional

PER~IC~CUSTOMER SERVICE~TE~1-888-555-9000~EM~www.company.com

	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>	Attı	<u>ributes</u>
Must Use	PER01	366	<b>Contact Function Code</b>	M	ID 2/2
			Code identifying the major duty or responsibility of the personal	on or	group named
			IC Information Contact		
	PER02	93	Name	O	AN 1/60
			Free-form name		
	PER03	365	<b>Communication Number Qualifier</b>	$\mathbf{X}$	ID 2/2
			Code identifying the type of communication number		
			TE Telephone		
	PER04	364	<b>Communication Number</b>	$\mathbf{X}$	AN 1/80
			Complete communications number including country or area applicable	code	when
			Telephone Number		
	PER05	365	Communication Number Qualifier	X	ID 2/2
			Code identifying the type of communication number		
			EM Electronic Mail		
			Email or Website		
	PER06	364	Communication Number	X	AN 1/80
			Complete communications number including country or area applicable	code	when
			Email or Website		

Segment: N1 Name (Service Address)

**Position:** 070

Loop: N1 Optional

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.

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.

N105 and N106 further define the type of entity in N101.

**Notes:** Required

N1~MQ~SERVICE ADDRESS NAME

N1~MQ~SERVICE ADDRESS NAME~92~STORE 101

Must Use	Ref. <u>Des.</u> N101	Data <u>Element</u> 98	Name Entity Identifier C	Code	Attı M	ributes ID 2/3
			Code identifying ar individual MQ	n organizational entity, a physical location  Metering Location	, prop	perty or an
			MQ	Service Address		
Must Use	N102	93	Name	Service Fladress	X	AN 1/60
Wast Osc	11102	11102 95	Free-form name		21	1111 1/00
			Service Address Na	ame		
	N103	66	<b>Identification Cod</b>	e Qualifier	X	ID 1/2
			Code designating the Code (67)	ne system/method of code structure used f	or Ide	entification
			92	Assigned by Buyer or Buyer's Agent		
	N104	67	<b>Identification Cod</b>	e	X	AN 2/80
			Code identifying a	party or other code		
			Customer Reference	e Number (e.g., store number)		

Segment: N2 Additional Name Information

**Position:** 080

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 2

**Purpose:** To specify additional names or those longer than 35 characters in length

Syntax Notes: Semantic Notes:

Comments: Notes:

Optional

N2~SERVICE ADDRESS NAME CARRYOVER

**Data Element Summary** 

Free-form name

Service Address Name Carryover

Segment: N3 Address Information (Service Address)

**Position:** 090

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 2

**Purpose:** To specify the location of the named party

Syntax Notes: Semantic Notes:

**Comments:** 

**Notes:** Required

N3~1234 MAIN STREET~STE 101

Must Use	Ref. <u>Des.</u> N301	Data <u>Element</u> 166	Name Address Information	<u>Attributes</u> M AN 1/55
			Address information	
	N302	166	<b>Address Information</b>	O AN 1/55
			Address information	

Segment: N4 Geographic Location (Service Address)

**Position:** 100

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.

**Semantic Notes:** 

Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to

specify a location.

2 N402 is required only if city name (N401) is in the U.S. or Canada.

**Notes:** Required

N4~ANYTOWN~TX~75111

Must Use	Ref. <u>Des.</u> N401	Data Element 19	Name City Name	Attı O	ributes AN 2/30
			Free-form text for city name		
Must Use	N402	156	State or Province Code	O	ID 2/2
			Code (Standard State/Province) as defined by appropriate go	vernn	nent agency
Must Use	N403	116	Postal Code	O	ID 3/15
			Code defining international postal zone code excluding punc (zip code for United States)	tuatio	n and blanks

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.

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.

**Notes:** Required

ITD~~~~20070719

#### **Data Element Summary**

Ref. Data

Des. Element Name

Must Use ITD06 446 Terms Net Due Date

Attributes
O DT 8/8

Date when total invoice amount becomes due expressed in format

CCYYMMDD

Invoice Due Date

Segment: BAL Balance Detail (Total Amount of Previous Bill)

**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:

Notes:

Required if balance is not zero.

BAL~P~YB~150.00

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attı</u>	<u>ributes</u>
Must Use	BAL01	951	Balance Ty	pe Code	$\mathbf{M}$	ID 1/2
			Code indicat	ting the type of balance		
			P	Previous Month		
Must Use	BAL02	522	Amount Qu	alifier Code	M	ID 1/3
			Code to qua	lify amount		
			YB	Actual Unpaid Principal Balance		
Must Use	BAL03	782	Monetary A	Amount	$\mathbf{M}$	R 1/18
			Monetary ar	nount		
			Total Amou	nt of Previous Bill		

 $\textbf{Segment:} \quad \textbf{BAL} \,\, \textbf{Balance Detail (Total Payments/Credits Received Since Last Bill)}$ 

**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:

Notes:

Required if balance is not zero.

Note that this segment will include credits to the account that may have been transferred from other accounts along with the credit for an original bill when the bill is corrected.

BAL~P~TP~150.00

	Ref.	Data		•		
	Des.	<b>Element</b>	<u>Name</u>		<u>Attri</u>	<u>ibutes</u>
Must Use	BAL01	951	Balance Ty	pe Code	$\mathbf{M}$	ID 1/2
			Code indicate	ting the type of balance		
			P	Previous Month		
Must Use	BAL02	522	Amount Qu	ıalifier Code	M	ID 1/3
			Code to qua	lify amount		
			TP	Total payment amount		
Must Use	BAL03	782	Monetary A	Amount	M	R 1/18
			Monetary ar	mount		
			Total Payme	ents/Credits Received Since Last Bill		

 $\textbf{Segment:} \quad \textbf{BAL} \,\, \textbf{Balance Detail (Outstanding Balance Prior to Current Period Charges)}$ 

**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:** 

**Notes:** Required if balance is not zero.

BAL~M~J9~100.00

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attı</u>	<u>ributes</u>
Must Use	BAL01	951	Balance Typ	oe Code	M	ID 1/2
			Code indicati	ing the type of balance		
			M	Current Month		
Must Use	BAL02	522	Amount Qua	alifier Code	M	ID 1/3
			Code to quali	ify amount		
			<b>J</b> 9	Beginning Balance		
Must Use	BAL03	782	Monetary A	mount	M	R 1/18
			Monetary am	nount		
			Outstanding l	Balance Prior to Current Period Charges		

	1 r 1 1	
Segment:	111	<b>Baseline Item Data (Meter Level)</b>

**Position:** 010

Loop: IT1 Optional

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: Comments:

1 IT101 is the purchase order line item identification.

1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.

2 IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

Required

IT1~1~~~~SV~ELECTRIC~C3~METER~MB~TOU

			Data Eleli	ient Summar y		
	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Attı	<u>ributes</u>
Must Use	IT101	350	Assigned Identific	eation	0	AN 1/20
			Alphanumeric char	racters assigned for differentiation within	a tran	saction set
Must Use	IT106	235	Product/Service I	D Qualifier	X	ID 2/2
			Code identifying th	ne type/source of the descriptive number	used ir	1
			Product/Service ID	(234)		
			SV	Service Rendered		
Must Use	IT107	234	Product/Service I	D	X	AN 1/48
			Identifying number	for a product or service		
			ELECTRIC			
Must Use	IT108	235	Product/Service I	D Qualifier	$\mathbf{X}$	ID 2/2
			Code identifying th	ne type/source of the descriptive number	used ir	1
			Product/Service ID	(234)		
			C3	Classification		
Must Use	IT109	234	Product/Service II	D	X	AN 1/48
			Identifying number	for a product or service		
			METER	Meter level information		
	IT110	235	Product/Service I	D Qualifier	X	ID 2/2
			Code identifying th	ne type/source of the descriptive number	used ir	1
			Product/Service ID			
			MB	Measurement Type Code		
	IT111	234	Product/Service I	D	X	AN 1/48
			Identifying number	for a product or service		
			NT	Non-Time Of Use Measurement		
			TOU	Time Of Use Measurement		

Segment:	ME	2A Measurements (Consumption)
Position:	059	
Loop:	IT1	Optional
	D1	

Level: Detail
Usage: Optional
Max Use: 40

**Comments:** 

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances,

and weights (See Figures Appendix for example of use of C001)

**Syntax Notes:** 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.

2 If MEA05 is present, then MEA04 is required.3 If MEA06 is present, then MEA04 is required.

4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

**Semantic Notes:** 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

Notes: Optional - Not all competitive markets provide this information to the Energy Supplier.

Default value for MEA01 when meter reads are not provided will be "AA".

MEA~AA~PRQ~400~KH~12250~12450~51\ (Example uses meter multiplier of 2)

MEA~AA~PRQ~14~K1~~14~51\ (Example uses meter multiplier of 1)

			Data Eleme	ent Summary		
	Ref.	Data				
3.5	Des.	Element -	Name	TD 0 1		ributes
Must Use	MEA01	737	Measurement Refe		0	ID 2/2
				e broad category to which a measurement		
			AA	Meter reading-beginning actual/ending a		
			AE	Meter reading-beginning actual/ending of	estim	ated
			ВО	Meter Reading as Billed		
			EA	Meter reading-beginning estimated/endi	ng ac	tual
			EE	Meter reading-beginning estimated/endi	ng es	timated
<b>Must Use</b>	MEA02	738	Measurement Qua	lifier	O	ID 1/3
				specific product or process characteristic t	o wh	ich a
			measurement applie			
			PRQ	Product Reportable Quantity		
				Regular Usage		
Must Use	MEA03	739	Measurement Valu		X	R 1/20
			The value of the me			
				of consumption delivered for service per		
				ter readings (or as measured by the meter		
			Factor.	nand/consumption x meter multiplier), exc	Juan	ig Fowei
Must Use	MEA04	C001	Composite Unit of	Measure	X	
			-	osite unit of measure (See Figures Appen	dix fo	or examples
			of use)	` 5 11		1
Must Use	C00101	355	Unit or Basis for M	Ieasurement Code	M	ID 2/2
				units in which a value is being expressed	, or r	nanner in
			which a measurement			
			•	added as the competitive markets develop	•	
			K1	Kilowatt Demand (kW)		
			K2	Kilovolt Amperes Reactive Demand (kV		
			K3	Kilovolt Amperes Reactive Hour (kVAI	Rh)	
			K4	Kilovolt Amperes (kVa)		
			KH	Kilowatt Hour (kWh)		
	MEA05	740	Range Minimum		X	R 1/20

The value specifying the minimum of the measurement range

		Beginning Reading		
MEA06	<b>741</b>	Range Maximum	X	R 1/20
		The value specifying the maximum of the measurement range		
		Ending Reading or Single Reading (i.e., Demand)		
MEA07	935	Measurement Significance Code	0	ID 2/2

Code used to benchmark, qualify or further define a measurement value

The code descriptions in this data element have been modified by the Utility Industry. New codes may be added as the competitive markets develop.

41	Off Peak
42	On Peak
43	Intermediate (Mid) Peak
45	Summer On Peak
49	Winter On Peak
50	Winter Mid Peak
51	Total
57	Summer
58	Winter
62	Current
66	Shoulder Peak
71	Summer Super On Peak
73	Summer Off Peak
74	Summer Mid Peak
75	Winter Off Peak
84	High Tension On Peak Energy
85	High Tension Off Peak Energy
86	Low Tension On Peak Energy
87	Low Tension Off Peak Energy
88	Low Tension Total Energy
92	High Tension Total Energy

Segment: MEA Measurements (Meter Constant)

**Position:** 059

Loop: IT1 Optional

Level: Detail
Usage: Optional
Max Use: 40

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances,

and weights (See Figures Appendix for example of use of C001)

**Syntax Notes:** 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.

2 If MEA05 is present, then MEA04 is required.3 If MEA06 is present, then MEA04 is required.

4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

**Semantic Notes:** 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

**Comments:** 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

**Notes:** Optional - Not all competitive markets provide this information to the Energy Supplier.

MEA~~MU~1

			Data Element Summar y		
Must Use	Ref. <u>Des.</u> MEA02	Data Element 738	<u>Name</u> Measurement Qualifier	Attı O	ributes ID 1/3
			Code identifying a specific product or process characteristic measurement applies  MU  Multiplier	c to wh	ich a
Must Use	MEA03	739	Measurement Value The value of the measurement	X	R 1/20
			Meter Constant		

Segment: MEA Measurements (Power Factor)

**Position:** 059

Loop: IT1 Optional

Level: Detail
Usage: Optional
Max Use: 40

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances,

and weights (See Figures Appendix for example of use of C001)

**Syntax Notes:** 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.

2 If MEA05 is present, then MEA04 is required.3 If MEA06 is present, then MEA04 is required.

4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

**Semantic Notes:** 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

**Comments:** 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

**Notes:** Optional - Not all competitive markets provide this information to the Energy Supplier.

MEA~~ZA~.863

			Data	a Element Summary	
Must Use	Ref. <u>Des.</u> MEA02	Data Element 738	<u>Name</u> Measureme	nt Qualifier	Attributes O ID 1/3
			Code identif measuremen ZA	lying a specific product or process chat applies  Power Factor	aracteristic to which a
Must Use	MEA03	739	Measureme The value of	nt Value  the measurement	X R 1/20
			Power Facto	r	

**Position:** 120

Loop: IT1 Optional

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

**Notes:** 

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

Optional - Not all competitive markets provide this information to the Energy Supplier.

A default meter number may be used (e.g., CTPMETER001).

REF~MG~GE79602422

Must Use	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference Iden	tification Qualifier	Attı M	ributes ID 2/3
			Code qualifying	the Reference Identification		
			MG	Meter Number		
Must Use	REF02	127	Reference Iden	tification	X	AN 1/30
				nation as defined for a particular Transac Reference Identification Qualifier	etion Set o	or as

 $DTM \ \ Date/Time \ Reference \ (Service \ Period \ Start)$ **Segment:** 

**Position:** 150

IT1 Loop: Optional

Level: Detail Usage: Optional Max Use: 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes:** At least one of DTM02 DTM03 or DTM05 is required.

If DTM04 is present, then DTM03 is required.

If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes: Comments:** 

**Notes:** Required

DTM~150~20070617

	Ref.	Data		•		
	Des.	<b>Element</b>	<u>Name</u>		Attr	<u>ibutes</u>
Must Use	DTM01	374	Date/Time Qualifie	er	M	ID 3/3
			Code specifying typ	e of date or time, or both date and time		
			150	Service Period Start		
Must Use	DTM02	373	Date		X	<b>DT 8/8</b>
			Date expressed as C	CYYMMDD		
			Service Period Start	Date		

**Position:** 150

Loop: IT1 Optional

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:** 

Notes: Required

DTM~151~20070718

Must Use	Ref. <u>Des.</u> DTM01	Data Element 374	Date/Time	e Qualifier ifying type of date or time, or both date and time	Attı M	ributes ID 3/3
			151	Service Period End		
Must Use	DTM02	373	Date		X	<b>DT 8/8</b>
			Date expre	essed as CCYYMMDD		
			Service Pe	eriod End Date		

	1111	
Segment:	<b>111</b>	<b>Baseline Item Data (Account Level)</b>

**Position:** 010

Loop: IT1 Optional

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.
- 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: Comments:

1 IT101 is the purchase order line item identification.

1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.

2 IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

**Notes:** Required

IT1~1~~~~SV~ELECTRIC~C3~ACCOUNT

	Ref.	Data	2 210			
	Des.	Element	Name		Attı	ributes
Must Use	IT101	350	Assigned Identif	ication	O	AN 1/20
			Alphanumeric ch	aracters assigned for differentiation within a	tran:	saction set
Must Use	IT106	235	Product/Service	ID Qualifier	X	ID 2/2
			Code identifying Product/Service I SV	the type/source of the descriptive number us D (234) Service Rendered	sed in	1
Must Use	IT107	234	Product/Service	ID	$\mathbf{X}$	AN 1/48
			Identifying numb ELECTRIC	er for a product or service		
Must Use	IT108	235	Product/Service	ID Qualifier	X	ID 2/2
			Code identifying Product/Service I C3	the type/source of the descriptive number us D (234) Classification	sed in	l
Must Use	IT109	234	Product/Service	ID	X	AN 1/48
			Identifying numb	er for a product or service		
			ACCOUNT	Account level information and charges		

Segment: TXI Tax Information

**Position:** 040

Loop: IT1 Optional

Level: Detail
Usage: Optional
Max Use: 10

**Purpose:** To specify tax information

**Syntax Notes:** 1 At least one of TXI02 TXI03 or TXI06 is required.

2 If either TXI04 or TXI05 is present, then the other is required.

**3** If TXI08 is present, then TXI03 is required.

**Semantic Notes:** 1 TXI02 is the monetary amount of the tax.

2 TXI03 is the tax percent expressed as a decimal.

3 TXI07 is a code indicating the relationship of the price or amount to the associated

segment.

**Comments:** 

Notes: Optional

TXI~ST~6.00~~~~A

			Data Elem	ent Summary		
Must Use	Ref. <u>Des.</u> TXI01	Data <u>Element</u> 963	Name Tax Type Code			ibutes ID 2/2
Must Use	1 7101	703	Code specifying the	type of tay	IVI	ID 2/2
				added as markets continue to develop.		
			AT	Assessment		
			711	PUC Assessment Reimbursement		
			CS	City Sales Tax		
			CT	County Tax		
			FR	Franchise Tax		
				Franchise Fee		
			GR	Gross Receipts Tax		
			LS	State and Local Sales Tax		
			LT	Local Sales Tax (All Applicable Sales T Authority Below the State Level)	axes	by Taxing
			MP	Municipal Tax		
			SE	State Excise Tax		
				Excise Tax Reimbursement		
			ST	State Sales Tax		
			SU	Sales and Use Tax		
			UT	Utility Users' Tax		
Must Use	TXI02	782	<b>Monetary Amount</b>		X	R 1/18
			Monetary amount			
			Tax Amount			
Must Use	TXI07	662	Relationship Code		O	<b>ID</b> 1/1
			Code indicating the	relationship between entities		
			A	Add		
				The amount in the TXI02 will be added the invoice total.	when	summing
			O	Information Only		
				The amount in the TXI02 will not be add summing the invoice total.	ded w	hen

**Position:** 150

Loop: IT1 Optional

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:** 

Notes: Required

DTM~150~20070617

Must Use	Ref. Des. DTM01	Data Element 374	Name Date/Time (	Qualifier ving type of date or time, or both date and time	Attı M	ributes ID 3/3
			150	Service Period Start		
Must Use	DTM02	373	Date Date express	sed as CCYYMMDD	X	DT 8/8
			Service Perio			

**Position:** 150

Loop: IT1 Optional

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:** 

Notes: Required

DTM~151~20070718

Must Use	Ref. Des. DTM01	Data Element 374	Date/Time Q	ualifier  ng type of date or time, or both date and time	Attı M	ributes ID 3/3
			151	Service Period End		
Must Use	DTM02	373	Date		X	<b>DT 8/8</b>
				d as CCYYMMDD		
			Service Perio	d End Date		

Segment: SLN Subline Item Detail

**Position:** 200

Loop: SLN Optional

Level: Detail
Usage: Optional

Max Use: 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.
- 12 If cities SLN25 of SLN20 is present, then the other is required
- 13 If either SLN27 or SLN28 is present, then the other is required.

#### **Semantic Notes:**

- 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:

Required SLN~1~~A

	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>	Att	<u>ributes</u>
Must Use	SLN01	350	Assigned Identification	M	AN 1/20
			Alphanumeric characters assigned for differentiation within	a tran	saction set
Must Use	SLN03	662	Relationship Code	M	ID 1/1
			Code indicating the relationship between entities		
			A Add		

			1				
	Segment:	SAC	Service, Promot	tion, Allowance, or Charge Informatio	n		
	Position:	230	0				
	Loop: Level:	SLN Detail	Optional				
	Usage:	Optional					
	Max Use:	25					
	Purpose:	To reque		rice, promotion, allowance, or charge; to e, promotion, allowance, or charge	specify the amount		
Synt	tax Notes:			or SAC03 is required.			
				204 is present, then the other is required.			
				207 is present, then the other is required.			
				C10 is present, then the other is required.			
				en SAC10 is required.  en at least one of SAC02 or SAC04 is rec	mired		
				en SAC13 is required.	aunea.		
				en SAC15 is required.			
Seman	tic Notes:			, then at least one of SAC05, SAC07, or	SAC08 is required.		
				unt for the service, promotion, allowance			
				h SAC07 or SAC08, then SAC05 takes p	precedence.		
				e or charge rate per unit.	.1		
				the quantity basis when the allowance or chase order or invoice quantity.	charge quantity is		
				d together indicate a quantity range, which	ch could be a dollar		
				ole to service, promotion, allowance, or c			
				nction with SAC02 or SAC04 to provide			
			number as identified by the code used.				
			AC14 is used in conjunction with SAC13 to identify an option when there is more				
			than one option of the promotion.				
C	<b>-</b>		SAC16 is used to identify the language being used in SAC15.				
C	omments:		C04 may be used to uniquely identify the service, promotion, allowance, or rge. In addition, it may be used in conjunction to further the code in SAC02.				
			ome business applications, it is necessary to advise the trading partner of the				
			al dollar amount that a particular allowance, charge, or promotion was based on				
				nis amount is commonly referred to as "D			
				ted in the SAC segment in SAC10 using	the qualifier "DO" -		
			ars in SAC09.				
	Notes:	Required					
				88~~~.05375~KH~500~~~~ENERGY	500 kWh at		
		\$0.05375	per kwn				
	D 6	<b>D</b> (	Data Ele	ment Summary			
	Ref. <u>Des.</u>	Data <u>Element</u>	Name		<u>Attributes</u>		
Must Use	SAC01	248	Allowance or Ch	arge Indicator	M ID 1/1		
Widst Osc	Bileui	210		ates an allowance or charge for the service			
			A	Allowance	ce specificu		
			C	Charge			
	01.000	==0	N	No Allowance or Charge	V TD 4/4		
	SAC03	559	Agency Qualifier		X ID 2/2		
		Code identifying the agency assigning the code values					
			EU	Electric Utilities			
	SAC04	1301		Promotion, Allowance, or Charge Cod			
			Agency maintaine charge	ed code identifying the service, promotio	n, allowance, or		

**Must Use** 

SAC05

610

Amount

Monetary amount

New codes will be added to this list continually as each competitive market creates new charge types. Please see Appendix A for current list of codes.

O N2 1/15

SAC08	118	Rate		o	R 1/9			
		Rate expressed in the standard monetary denomination for the currency						
		specified						
SAC09	355		Aeasurement 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						
		Some of the code descriptions in this data element have been modified by the Utility Industry. New codes may be added as the competitive markets develop.						
		4A 4CP - Kilowatt Demand						
		4-Coincident Peak (4CP) - Kilowatt Demand						
		4B						
			4-Coincident Peak (4CP) - kVA Deman	d				
		4C	4CP - Power Factor Adjusted					
			4-Coincident Peak (4CP) - Power Facto	r Ap	olied			
		4D	4CP - KVAR Demand					
			4-Coincident Peak (4CP) - KVAR Demand					
		AF	Actual Demand - Power Factor Adjusted					
		EA	Each					
		K1	Kilowatt Demand (kW)					
		K2	Kilovolt Amperes Reactive Demand (ky	VAR	)			
		K3	Kilovolt Amperes Reactive Hour (kVA)	Rh)				
		K4	Kilovolt Amperes (kVa)					
		K5	Kilovolt Amperes Reactive					
		KH	Kilowatt Hour (kWh)					
		MO	Months					
		NA	NCP - Kilowatt Demand					
			Non-coincident Peak - Kilowatt Demand					
		NB	NCP - kVA Demand					
			Non-coincident Peak - kVA Demand  NCP - Power Factor Adjusted  Non-coincident Peak - Power Factor Adjusted  NCP - KVAR Demand					
		NC						
		ND						
		Non-coincident Peak - KVAR Demand  RA Ratchet - Kilowatt Demand  Ratchet - Kilowatt Demand						
		RB	Ratchet - kVA Demand					
			Ratchet - kVA Demand					
		RC	Ratchet - Power Factor Adjusted					
			Ratchet - Power Factor Adjusted					
		RD	Ratchet - KVAR Demand					
			Ratchet - KVAR Demand					
SAC10	380	Quantity		X	R 1/15			
		Numeric value of q	uantity					
SAC15	352	Description		X	AN 1/80			

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

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:** Required

TDS~184.26

### **Data Element Summary**

	Ref.	Data		
	Des.	<b>Element</b>	<u>Name</u>	<u>Attributes</u>
Must Use	TDS01	610	Amount	M N2 1/15

Monetary amount

TDS01 is the total amount due for this invoice including any prior balance owed at the time of billing. The amount equals the sum of the amounts in the BAL~M~J9, TXI02 and SAC05 elements. If the account has a credit balance, and therefore no payment is expected, this amount will show the credit on the account.

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.

If either CTT05 or CTT06 is present, then the other is required.

**Semantic Notes:** 

**Must Use** 

**Comments:** 1 This segment is intended to provide hash totals to validate transaction completeness

and correctness.

Notes: Required

CTT~2

**Data Element Summary** 

Ref. Data

Des.<br/>CTT01Element<br/>354Name<br/>Number of Line ItemsAttributes<br/>M N0 1/6

Total number of line items in the transaction set

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.

**Notes:** Required

SE~25~102001

Must Use	Ref. <u>Des.</u> SE01	Data <u>Element</u> 96	Name Number of Included Segments	Attr M	ributes N0 1/10	
Must Use	SE02	329	Total number of segments included in a transaction set inclusegments  Transaction Set Control Number	ding S <b>M</b>	T and SE  AN 4/9	
Wittst Osc	SEUZ	32)	Identifying control number that must be unique within the transaction se functional group assigned by the originator for a transaction set			

# **Appendix A – Charge Codes**

- ADJ000 Adjustment See SAC15 for Description
- ADJ001 Environmental Cost Recovery Adj
- ADJ002 Adjustment
- ADJ006 Franchise Fee Adjustment
- ADJ007 Meter Correction
- ASC001 Ancillary Services Charge
- ASC002 Non-Market Based Ancillary Services Charge
- ASC003 Real Time Operating Reserve
- BAS000 Customer Charge See SAC15 for Description
- BAS001 Customer Charge
- BAS003 Metering Charge
- BAS004 Field Service Charge
- BUD001 Current Budget Charge
- **BUD002** Levelized Settlement Amount
- BUD901 Deferred Amount
- BUD902 After this payment your levelized plan is behind
- BUD903 After this payment your levelized plan is ahead
- BUD904 After this payment your levelized plan is zero
- BUD905 Will be your new levelized amount
- BUD906 Levelized summary after
- BUD907 Including this bill, amount you used
- CAP901 Capacity Charge
- CAP902 Unforced Capacity Charge UCAP
- COL001 Collection Expense
- CON001 Congestion
- CRE000 Credit See SAC15 for Description
- CRE001 Excess Credit
- CRE004 Credit for customer transformer
- CRE005 Generation Credit
- CRE009 Credit Interrupt Service
- CRE011 Commitment Adjustment
- CRE014 Retail Access Credit
- CRE020 Meter Owner Credit
- CRE027 System Performance Credit
- CRE028 Circuit Performance Credit
- CRE029 Connect Service Performance Credit
- CRE030 Util Serv Discre-UCS Credit
- DAB001 Deposit
- DAB002 Deposit Interest
- DAB003 Deposit Refund
- DCS001 Standard Move-In
- DCS002 Priority Move-In
- DCS003 Move-Out
- DCS004 Customer Requested Clearance
- DCS005 Disconnect for Non-Pay
- DCS006 Standard Reconnect

- DCS007 Meter Test
- DCS008 Re-Read
- DCS009 Off Cycle Meter Read for Switch
- DCS010 Off-site Meter Reading Equip Install
- DCS011 Automated Meter Reading Install
- DCS012 Interval Data Recorder Install
- DCS013 Service Call
- DCS014 Security Lighting Repair
- DCS015 Security Light Removal
- DCS016 Street Light Removal
- DCS017 Tampering
- DCS018 Broken Meter Seal
- DCS019 Inaccessible Meter Charge
- DIS000 Distribution Facilities Charge See SAC15 for Description
- DIS001 Distribution System Charge
- DMD000 Interruptible Demand See SAC15 for Description
- DMD001 Distribution Facilities Chg MKD
- DMD002 Coincident Demand Charge
- DMD007 On Peak Demand
- DSC000 Special Reduction Amount See SAC15 for Description
- DSC001 Transition Charge-Off Allowance
- DSC002 Transition Charge-Off Allowance 2
- DSC009 Energy Assistance Discount
- ENCO00 Energy Charge See SAC15 for Description
- ENCO01 Energy
- ENC002 Energy Tier Charge
- ENC003 Energy Off Peak
- ENC021 Commodity Charge
- ENC039 Energy On Peak
- ENC040 Block
- ENC042 Energy Charge Shoulder
- ENC901 Energy Adj
- ENC902 Energy Billing KW
- ENC903 LMP Energy
- ENC904 Energy Weekend
- ENC905 Index Energy Charge
- ENC906 Index Adjustment
- ENC907 Adder Charge
- ENC908 Operating Reserve Charge
- ENC909 Day Ahead Block Allocation
- ENC910 Heat Rate Electricity Charge
- ENC911 HEFA Aggregate Swing
- ENC912 Retail Access Credit
- ENC913 Retail Access Credit Discount
- ENC914 Retail Access Credit Total
- ENC915 Retail Access Credit Saved
- FAC000 Lighting Additional Equipment
- FAC001 Additional Facilities

- FAC002 Facilities Rental
- FFR001 Non-Metered Service
- FFR901 Monthly Flat Fee Including Taxes
- FFR902 Monthly Flat Fee No Taxes
- FUE001 Fuel Adjustment Charge
- GEN002 Generation Charge Measured
- GEN003 Generation Charge Adjusted
- GEN004 Generation Charge Billed
- GTC002 Generation/Transmission Charge Measured
- GTC003 Generation/Transmission Charge Adjusted
- GTC004 Generation/Transmission Charge Billed
- GTC005 Generation/Transmission Charge On Peak
- GTC006 Generation/Transmission Charge Off Peak
- GTC007 Energy Charge Generation
- GTC008 Generation/Transmission On Peak Demand
- GTC009 Maximum Demand Generation Charge
- GTC010 Generation/Transmission Charge Int Peak
- **HOC001** Service Connection Charge
- IBC001 Standby Service
- IBC014 Non compliance Demand Charge
- INT001 Interest on Sale
- INT003 ITC Adjustment Interest
- LAA001 Bill for Work Performed
- LFR901 Locational Forward Reserve
- LPC001 Late Payment Charge
- MAD000 Maximum Charge
- MAD001 Minimum Charge
- MSC000 Miscellaneous See SAC15 for Description
- MSC001 Miscellaneous
- MSC005 Price Protection
- MSC007 Property Damage
- MSC008 Court Costs
- MSC010 Select Read Cycle Fee
- MSC022 Competition Transition Charge
- MSC023 CTC2-Dkt 30706: Rate Case Expense
- MSC024 System Benefit Fund
- MSC025 Nuclear Decommission Chrg
- MSC029 Transition Charge 1
- MSC033 Special Metering & Non-Standard Metering Reports
- MSC034 Retail Clawback
- MSC035 Special Billing Service
- MSC036 Transition Charge 2
- MSC037 Transition Charge 3
- MSC039 Adv Metering Cost Recov Factor
- MSC040 Underground Facilities
- MSC901 Indicates that this charge line is text only, and is often used for subheadings
- MSC902 Monthly Flat Fee
- ODL001 Outdoor Area Light Charge

- ODL002 Street Lighting Point of Delivery
- ODL003 Street Lighting Facilities
- ODL004 Street Lighting
- ODL005 Outdoor Lighting Facilities
- ODL006 Outdoor Lighting Asset Recovery
- ODL007 Outdoor Lighting (Guard Light) Extra Span Charge
- PAY001 Payment Agreement
- RCS001 Reconnect Charge
- REC001 Renewable Energy Credit
- RMR001 RMR
- RRR001 Excess Mitigation Credit
- RRR006 Rate Reduction Credit
- RRR008 Merger Savings Credit
- RRS001 Replacement Reserve Charge (RPRS)
- RRS002 RPRS Regulatory Recovery
- RRS003 RPRS Recovery Charge
- RTC001 Returned Item Charge
- SER001 Service Charge
- SER003 Non-standard Switch Charge
- SER005 Billing & Usage Data Fee
- SER009 Account Initiation
- SER010 Special Meter Read
- SER011 Out of Cycle Meter Reading Regular Hours
- SER012 Out of Cycle Meter Rdg-Outside Reg Hrs Non-Holiday
- SER013 Out of Cycle Meter Rdg-Outside Reg Hours Holiday
- SER014 Connection Charge Self Contained Meter
- SER015 Connection Charge Other Connections -Labor
- SER016 Connection Chrg Other Connections-Transportation
- SER017 Connection Charge Other Connections-Material
- SER018 Connection Charge Other Connections -Other
- SER019 Service Connection
- SER020 Disconnect/Reconnect Temporary Clearance
- SER021 Disconnect/Reconnect Temporary Clearance
- SER022 Disconnect/Reconnect Temporary Clearance
- SER023 Retail Customer Requested Clearance Other
- SER024 Disconnect at Meter
- SER026 Disconnect at Pole, Weatherhead or Secondary Box
- SER027 Priority Disconnect
- SER028 Reconnection Fee
- SER029 Priority Reconnect
- SER030 Reconnect at Meter Regular Hours Regular Route
- SER031 Reconnect at Meter Regular Hours Special Route
- SER032 Reconnect at Meter Outside Reg Hours Non-Holiday
- SER033 Reconnect at Meter Outside Regular Hours Holiday
- SER034 Reconnect at Pole, Weatherhead or Sec Box -Reg Hrs
- SER035 Reconn at Pole, Weatherhead, Sec Box-Off Hr Non-Hol
- SER036 Reconn at Pole, Weatherhead or Sec Box -Off Hrs Hol
- SER037 Delivery System Facilities Installation Labor

- SER038 Delivery System Facilities Installation Trans
- SER039 Delivery System Facilities Installation Material
- SER040 Delivery System Facilities Installation Other
- SER041 Additional Service Design Labor
- SER042 Additional Service Design Transportation
- SER043 Additional Service Design Material
- SER044 Additional Service Design Other
- SER045 Temporary Facilities A
- SER046 Temporary Facilities B
- SER047 Temporary Facilities C
- SER048 Temporary Facilities D Labor
- SER049 Temporary Facilities D Transportation
- SER050 Temporary Facilities D Material
- SER051 Temporary Facilities D Other
- SER052 Underground By Pass Cable
- SER053 Temporary Service
- SER054 Facilities Relocation / Removal Labor
- SER055 Facilities Relocation / Removal Transportation
- SER056 Facilities Relocation / Removal Material
- SER057 Facilities Relocation / Removal Other
- SER058 Meter Test
- SER059 Meter Test Single Phase Self Contained
- SER060 Meter Test Three Phase Self Contained
- SER061 Meter Test Single Phase Instrument Rated
- SER062 Meter Test Three Phase Instrument Rated
- SER063 Meter Test Instrument Rated
- SER064 PCB Inquiry
- SER065 PCB Inquiry and Lab Testing Labor
- SER066 PCB Inquiry and Lab Testing -Transportation
- SER067 PCB Inquiry and Lab Testing Material
- SER068 PCB Inquiry and Lab Testing -Other
- SER069 PCB Inquiry Additional Transformer
- SER070 Service Call
- SER071 Service Call After Hours
- SER072 Tampering
- SER073 Off-Site Meter Rdq (OMR) Equip Installation-Reg Hr
- SER074 Off-Site Meter Rd(OMR)Equip Install-Off Hr Non-Hol
- SER075 Off-Site Meter Rdg (OMR) Equip Install-Off Hrs Hol
- SER076 Auto Mtr Rdg Equip Install-Sngl Phs Self Contained
- SER077 Auto Meter Rdg Equip Install-3 Phase Self Containd
- SER078 Auto Mtr Rdg Equip Install-Sql Ph Instrument Rated
- SER079 Auto Mtr Rdg Equip Install-3 Phas Instrument Rated
- SER080 Automated Meter Reading-Cycle Meter Read (Monthly)
- SER081 Auto Meter Rdg -Specific Date Meter Read (Monthly)
- SER082 Adv Metering Intervl Load Data Equip Install-Labor
- SER083 Adv Metering Intervl Load Data Equip Install-Trans
- SER084 Adv Metering Interval Load Data Equip Install-Matl
- SER085 Adv Metering Intervl Load Data Equip Install-Other

- SER086 Adv Meter Interval Load Data Equip Maint (Monthly)
- SER087 Electrical Pulse Equipment Installation
- SER088 Electrical Pulse Equip Replacement Isolation Relay
- SER089 Electrical Pulse Equip Replacement Pulse Initiator
- SER090 ElecPulseEquipRepl Isolation Relay&Pulse Initiator
- SER091 Electrical Pulse Equip Replacement Enclosure box
- SER092 Electrical Pulse Equipment Maintenance (Monthly)
- SER093 Dual Socket Meter Adapter
- SER094 Power Factor Correction Equip Installation Labor
- SER095 Power Factor Correction Equip Installation Matl
- SER096 Power Factor Correction Equip Installation Trans
- SER097 Power Factor Correction Equip Installation Other
- SER098 Non-Standard Service Equipment Inspection/Testing
- SER100 Retail Delivery Svc Switchover Self Contained Base
- SER101 Retail Delivery Serv Sw/O Self Contained Base Addr
- SER102 Retail Delivery Serv Switchover Instr Rated Base
- SER103 Retail Delivery Serv Sw/O Instr Rated Base Adder
- SER104 Retail Delivery Serv Sw/O Instr Rated Facil Recovy
- SER105 Security Light Repair Charge
- SER106 Miscellaneous Discretionary -Labor
- SER107 Miscellaneous Discretionary Material
- SER108 Misc Discretionary Transportation
- SER109 Misc Discretionary Other
- SER111 Transmission Facilities Relocation Study Labor
- SER112 Transmission Facilities Relocation Study -Material
- SER113 Transmission Facilities Relocation Study Trans
- SER114 Transmission Facilities Relocation Study Other
- SER116 Transmission Facilities Relocation Labor
- SER117 Transmission Facilities Relocation Material
- SER118 Transmission Facilities Relocation Trans
- SER119 Transmission Facilities Relocation Other
- SER121 Power Factor Corr Facilities Install(Transm)-Labor
- SER122 Power Factor Corr Facilities Install (Transm)-Matl
- SER123 Power Factor Corr Facility Install (Transm)-Transp
- SER124 Power Factor Corr Facilities Install(Transm)-Other
- SER126 Misc Transmission Discretionary Labor
- SER127 Misc Transmission Discretionary Material
- SER128 Misc Transmission Discretionary Transp
- SER129 Misc Transmission Discretionary Other
- SER130 Broken Meter Seal
- SER131 Service Conductor Temp Removal
- SER132 Dispatch Order
- SER133 Denial of Access to Meter
- SER134 Underground Location
- SER136 Extraordinary Maintenance Activity
- SMD000 Refinance
- SMD001 Appliance Repair
- SMD003 Commercial Heat Pump/Water htr fin

SMD007 Heat Pump Financing SMD010 Land and Timber Sale

SMD011 Merchandise

SMD012 Surge Suppressor/Mtr Treater Rental

SMD015 Meter Damage

SMD016 Meter Service Charge

SMD019 Special Meter Read

SMD020 Meter Change

SUR005 Transportation

SUR010 Reg. Entity Fee

TEM001 Temporary Service Charge

TPI001 Utility Charges

TRN000 Transmission - See SAC15 for Description

TRN001 Transmission Service Charge

TRN002 Transmission Cost Recov Factor/Transmission Charge - Measured

TRN005 Network Integration Transmission Charge

TRN016 Transmission Charge - Adjusted TRN017 Transmission Charge - Billed

TRN901 Transmission Service Charge Adjustment

TRN902 Transmission Cost Recov Factor Adj

TRS001 Transfer

VCR001 Project share/one-time charge

ZZZ999 Not yet coded