

AN EMERA COMPANY

**TECO Energy** 

# **EDI** Implementation Guide

Transaction Set 810 - Utility to Customer Version 4010.3

Jan 17, 2017

# Summary of Changes

August 24, 2001	Version 1.0 - Initial Release 810 y. 4010
May 07, 2009	Version 1.0— Initial Release 810 y. 4010.1
Dec 09, 2016	Version 1.0 – Initial Release 810 y. 4010.2
Jan 12, 2017	Removed Amount Qualifier Code of YB from Balance Detail segment on page 15. BAL*P*YB and BAL*M*YB are not provided.
	Updated SAC04 for Agency Service, Promotion, Allowance or Charge Code on page 28
	Updated TDS segment for more clarification on page 34
	Updated SAC04 for Agency Service, Promotion, Allowance or Charge Code on page 36
	Added separate DUNS Number for Electric and Gas bills in N104 on page 11

## 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.

## Functional Group ID = IN

#### Heading:

	<u>Pos.</u> No	<u>Seg.</u> ID	Name	<u>Req.</u> Des	<u>Max Use</u>	<u>Loop</u> Repeat	Notes and Comments
		ISA	Interchange Control Header	М			
		GS	Functional Group Header	М	>1		
М	010	ST	Transaction Set Header	М			
М	020	BIG	Beginning Segment for Invoice	М			
	050	REF	Reference Identification	0	12		
			LOOP ID – N1			200	
	070	N1	Name	0			
	080	N2	Additional Name Information	0	2		
	090	N3	Address Information	0	2		
	100	N4	Geographic Location	0			
	130	ITD	Terms of Sale/Deferred Terms of Sale	0	>1		
	212	BAL	Balance Detail	0	>1		
	214	PAM	Period Amount	0	>1		
			POP ID – N9				
	240	N9	Reference Identification	0			
	250	MSG	Message Text	0	10		

#### Detail:

<u>Pos.</u> No.	<u>Seg.</u> ID	Name LOOP ID - IT1	<u>Req.</u> Des	<u>Max Use</u>	Loop Repeat	Notes and Comments
					200000	
010	IT1	Baseline Item Data (Invoice)	0			
059	MBA	Measurements	0	40		
120	REF	Reference Identification	0	>1		
150	DTM	Date/Time Reference	0	10		
230	SAC	Service, Promotion, Allowance, or Charge Information	0	25		
		LOOP ID – N1			200	
240	N1	Name	0	1		
260	N3	Address Information	0	2		
270	N4	Geographic Location	0	1		

#### Summary:

	<u>Pos.</u> No.	<u>Seg.</u> ID	Name	<u>Req.</u> Des	<u>Max Use</u>	<u>Loop</u> Repeat	Notes and Comments
М	010	TDS	Total Monetary Value Summary	М	1		
			LOOP ID – SAC			25	
	040	SAC	Service, Promotion, Allowance, or Charge Information	0			
	050	TXI	Tax Information	0	10		
	070	CTT	Transaction Totals	0			n 1
М	080	SE	Transaction Set Trailer	М			
		GE	Functional Group Trailer	М	>1		
		TEA	Interchange Control Trailer	М			

#### **Transaction Set Notes**

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:	ISA Interchange Control Header
Position:	
Loop:	
Level:	
Usage:	
Max Use:	
Purpose:	To start and identify an interchange of zero or more functional groups and interchange-related control segments.
Syntax Notes:	
Semantic Notes:	
Comments:	

Ref. Des	<u>Data</u> Element	Name	Attributes
ISA01	101	Authorization Information Qualifier	M ID 2/2
ISA02	102	Authorization Information	M AN 10/10
ISA03	103	Security Information Qualifier	M ID 2/2
ISA04	104	Security Information	M AN 10/10
ISA05	105	Interchange ID Qualifier	M ID 2/2 01
ISA06	106	Interchange Sender ID 006924286E-Production 006924286ET-Test	M AN 15/15
ISA07	105	Interchange ID Qualifier	N ID 2/2
ISA08	107	Interchange Receiver ID	M AN 15/15
ISA09	108	Interchange Date	M DT 6/6
ISA10	109	Interchange Time	M TM 4/4
ISA11	110	Interchange Control Standards Identifier	M ID 1/1
ISA12	I11	Interchange Number Control Version	M ID 5/5 00401
ISA13	112	Interchange Control Number	M NO 9/9
ISA14	<b>I13</b>	Acknowledgement Requested	M ID 1/1
ISA15	114	<b>Usage Indicator</b> T for Test P for Production	M ID 1/1
ISA16	I15	Component Element Separator	M AN 1/1

Segment:	GS Functional Group Header
Position:	
Loop:	
Level:	
Usage:	
Max Use:	
Purpose:	To indicate the beginning of a functional group and to provide control information.
Syntax Notes:	
Semantic Notes:	
Comments:	

Ref. Des	<u>Data</u> Element	Name	<u>Attributes</u>
GS01	479	Functional Identifier Code	M ID 2/2
GS02	142	Application Sender's Code 006924286E for Production 006924286ET for Test	M AN 2/15
GS03	124	Application Receiver's Code	M AN 2/15
GS04	373	Date	M DT 6/6 /Z
GS05	337	Time	M TM 4/8 /Z
GS06	28	Group Control Number	M NO 1/9 /Z
GS07	455	Responsible Agency Code X-X12	M ID 1/2
GS08	480	Version/Release Code Identifier 004010	M AN 1/12

Segment:	ST Transaction Set Header
Position:	010
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the beginning of a functional group and to provide control information.
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:	

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

# Segment: **BIG** Beginning Segment for Invoice

Position:	020
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the beginning of an invoice transactions set and transmit identifying numbers and dates.
Syntax Notes:	
Semantic Notes:	1 BIG01 is the invoice issue date.
Comments:	<ol> <li>BIG07 is used only to further define the type of invoice when needed.</li> </ol>

	Ref. Des	<u>Data.</u> Element	Name	<u>Attributes</u>
м	BIG01	373	<b>Date</b> Date expressed as CCYYMMDD	M DT 8/8
М	BIG02	76	<b>Invoice</b> Identifying Invoice number assigned by issuer (TECO/PGS)	M AN 1/22
	BIG04	324	<b>Purchase Order Number</b> Utility	O AN 1/24
	BIG07	640	Transaction Type Code Code Specifying the type of transaction FB Final Bill PR Product (or Service)	O AN 2/2
	BIG08	353	Transaction Set Purpose Code Code specifying purpose of transaction set 00 Original 07 Duplicate CO Corrected	O ID 2/2

Segment:	<b>REF</b> Reference Identification
Position:	050
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	12
Purpose:	To specify identifying information.
Syntax Notes:	
Semantic Notes:	1 At least one of REF02 or REF03 is required.
Comments:	

	<u>Ref.</u> Des	<u>Data</u> Element	Name		Attributes
М	REF01	128		<b>entification Qualifier</b> Code Reference Identification	M ID 2/3
			12	Billing Account Account number under which Billing is rendered Utility-assigned account number	
			00	for the end use customerOriginal Invoice Number when BIG08=CO	
			45	Legacy Account Number	
	REF02	127	particular Tra	<b>entification</b> rmation as defined for a nsaction Set or as specified ce Identification Qualifier	X AN 1/30
	REF03	352		scription to clarify the lements and their content	X AN 1/80

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 presented, 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.

	<u>Ref.</u> Des	<u>Data</u> Element	Name		<u>Att</u>	ri	butes
М	N101	98	-	<b>fier Code</b> g an organizational entity, rty or an individual	M I	D	2/3
			BT	Bill-to-Party Used when directly billing the end use customer			
			RE	Party to receive Remittance			
	N102	93	Name Free-form name TECO for N101 =	RE	XA	N	1/60
	N103	66	Code designatin structure used	on Code Qualifier g the system/method of code for identification code Number, Dun & Bradstreet	X II	D	1/2
	N104	67	DUNS Numbe	g a party or other code. r > 006924286	XA	N	2/80

# Segment:N2 Additional Name InformationPosition:080Loop:N1Level:HeadingUsage:OptionalMax Use:2Purpose:To specify additional names or those longer than 60 characters in<br/>length.Syntax Notes:Semantic Notes:

	Ref. Des	<u>Data</u> Element	Name	<u>Attributes</u>
м	N201	93	Name Account Name/ Free Form Name	M AN 1/60
	N202	93	Name Account ID at Trading Partner	M AN 1/60

# Segment:N3 Address InformationPosition:090Loop:N1Level:HeadingUsage:OptionalMax Use:2Purpose:To specify the location of the named party.Syntax Notes:Semantic Notes:Comments:Value (Value)

	<u>Ref.</u> Des	<u>Data</u> Element	Name	Attributes
м	N301	166	Address Information Address Information	M AN 1/55

Segment:	N4 Geographic Location
Position:	100
Loop:	N1
Level:	Heading
Usage:	Optional
Max Use:	1
Purpose:	To specify the geographic place of the named party.
Syntax Notes:	
Semantic Notes:	
Comments:	<ol> <li>A combination of either N401 through N405, or N405 and N406 may be adequate to specify a location.</li> <li>N402 is required only if city name (N401) is in the U.S. or Canada.</li> </ol>

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

Segment:	t: <b>ITD</b> 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:			
Semantic Notes:			
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.		

Ref. Des	<u>Data</u> Element	Name	<u>Attributes</u>
ITD01	336	<b>Terms Type Code</b> 05 Discount not applicable	O ID 2/2
ITD02	333	<b>Terms Basis Date Code</b> 4 Specified date	O ID
ITD06	446	<b>Terms Net Due Date</b> Date when total invoice amount becomes due expressed in format CCYYMMDD. Payment Due Date	O DT 8/8

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:	

	Ref. Des.	<u>Data</u> Element	Name	<u>Attributes</u>
м	BAL01	951	<b>Balance Type Code</b> Code indicating the type of balance	M ID 1/2
			<ul> <li>M Current Month Billed, payment and balance amounts showing the BAL03 are in the billing period.</li> <li>P Previous Month Billed, payment and balance amounts shown in BAL03 are for the period prior to this billing period.</li> </ul>	
м	BAL02	522	Amount Qualifier Code	M ID 1/3
			Code to qualify amount	
			PB Billed amount *P*PB used to display invoice amount of previous month	
			TP Total payment amount *M*TP used to display total payment amounts made in this billing period.	
м	BAL03	782	Monetary Amount Monetary amount	M R 1/18

Segment:	PAM Period Amount
Position:	214
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	>1
Purpose:	To indicate a quantity and/or amount for an identified period.
Syntax Notes:	1 If any of PAM01 PAM02 or PAM03 is present, then all are required.
	2 At least one of PAM02 PM05 or PAM14 is required.
	3 If either PAM06 or PAM07 is present, then the other is required.
	4 If PAM07 is present, then at least one of PAM08 or PAM09 is required.
	5 If PAM07 is present, then PAM06 is required.
	6 if PAM08 is present, then PAM07 is required.
Semantic Notes:	
Comments:	This segment is used when historical consumption data must

accompany the invoice.

Ref. Des.	<u>Data</u> Element	Name	<u>Attributes</u>
PAM01	673	<b>Quantity Qualifier</b> Code Specifying the type of quantity 99 Quantity used Quantity of units used	X ID 2/2
PAM02	380	<b>Quantity</b> Numeric value of quantity	X R 1/15
PAM03	355	<pre>Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken K1 Kilowatt Demand Represents a potential power load measured at predetermined intervals. KH Kilowatt Hours TD Therms CF Cubic Feet</pre>	M ID 2/2
PAM06	344	Unit of Time Period of Interval Code indicating the time period or internal AD Average Daily	X ID 2/2
PAM07	374	Data/Time Qualifier Code specifying the type of date or time, or both date and time. 194 Period End Date	X ID 3/3
PAM08	373	<b>Date</b> Date expressed as CCYYMMDD	X DT 8/8

Segment:	N9 Reference Number
Position:	240
Loop:	N9
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To transmit identifying numbers and descriptive information as specified by the reference number qualifier. At least one of N902 or N903 is required.
Syntax Notes:	
Semantic Notes: Comments:	

	Ref. Des.	<u>Data</u> Element	Name	Attributes
м	N901	128	Reference Qualifier ZZ Mutually Defined	
	N903	369	<b>Description</b> Regulatory/Informational message	

# Segment: **MSG** Message Text

Position:250Loop:N9Level:DetailUsage:OptionalMax Use:10Purpose:To provide a free-form, format that would allow the transmission of textSyntax Notes:Semantic Notes:

Comments:

Ref. Des.	<u>Data</u> Element	Name	Attributes
MSG01	933	Free-form Message Text	M AN 1/264

Segment:	IT1 Baseline Item Data (Invoice)
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:	<ol> <li>If any of IT102, IT103 or IT104 is present, then all are required.</li> <li>If either IT106 or IT107 is present, then the other is required.</li> <li>If either IT108 or IT109 is present, then the other is required.</li> <li>If either IT110 or IT111 is present, then the other is required.</li> </ol>
Semantic Notes:	1 IT101 is the purchase order line item identification.
Comments:	<ol> <li>Element 235/234 combinations should be interpreted to include products and/or services. See the data dictionary for a complete list of IDs.</li> <li>IT106 through IT125 provide for ten different product/services IDs for each item.</li> <li>For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.</li> </ol>

Ref. Des	<u>Data</u> Element	Name	<u>Attributes</u>
IT101	350	<b>Identification</b> Alphanumeric characters assigned for differentiation within a transaction set. Line Item Counter	O AN 1/20
IT102	358	Quantity Invoiced	X R 1/15
IT103	355	Unit or Basis for Measurement Code EA Each KH Kilowatt Hour TD Therms	M ID 2/2
IT104	212	Unit Price	M R 1/14
IT106	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234). SV Service Rendered	X ID 2/2
IT107	234	<pre>Product/Service ID Identifying number for a product or service. Electric Billing for non-metered items Billing for non-energy items Gas</pre>	X AN 1/48

IT108	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X ID 2/2
IT109	234	<b>Product/Service ID</b> Identifying number for a product or service Meter Unmet Account	X AN 1/48
IT110	235	<pre>Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). IT110 and IT111 are used only if IT109=METER MB Measurement Type Code</pre>	X ID 2/2
IT111	234	<b>Product/Service ID</b> Identifying number for a product or service NT = Non-time of Use Measurement TOU = Time of Use Measurement	X AN 1/48

Segment:	MEA Measurements
Position:	059
Loop:	IT1
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 0001).
Syntax Notes:	<ol> <li>At least one of MEA03 MEA05 MEA06 or MEA08 is required.</li> <li>If MEA05 is present, then MEA04 is required.</li> <li>If MEA06 is present, then MEA04 is required.</li> <li>If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.</li> <li>Only one of MEA08 or MEA03 may be present.</li> </ol>
Semantic Notes: Comments:	<ol> <li>MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.</li> <li>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.</li> </ol>

Ref. Des	<u>Data</u> Element	Name	Attributes
MEA01	737	<pre>Measurement Reference ID Code Code identifying the broad category to which a measurement applies AA Meter Reading - Beginning actual/ Ending Actual AE Meter reading - Beginning actual/ ending Estimated AV Average Reading EA Meter reading- Beginning estimated/ ending actual FE Meter Reading- Beginning estimate/ ending estimated TI Time CF Conversion Factor</pre>	O ID 2/2
MEA02	739	Measurement Qualifier MU Multiplier It was generally agreed that the meter multiplier should be shown in its own MEA segment.	0 ID 1/3
MEA03	358	Quantity Invoiced	X R 1/15

MEA04	355	<pre>Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed. Or manner in which a measurement has been taken. DA Days KH Kilowatt Hour K1 Kilowatt Demand Represents potential power load measured at predetermined intervals. K3 Kilovolt Amperes Reactive Hour TD Therms TZ MCF CF Cubic feet BY BTU Factor</pre>	M ID 2/2
MEA05	740	<b>Range Minimum</b> The value specifying the minimum of the measurement range. Beginning Read	X R 1/20
MEA06	741	Range Maximum The value specifying the maximum the measurement range. Ending Read	X R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value 41 Off Peak 42 On Peak	O ID 2/2

Segment:	<b>REF</b> Reference Identification
Position:	120
Loop:	IT1
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify identifying information.
Syntax Notes:	1 At least one of REF02 or REF03 is required.
Semantic Notes:	
Comments:	REF03 contains data relating to the value cited in REF02

	Ref.D es.	Data Element	Name			Attributes
М	REF01	128	Reference Identification Qualifier Code specify qualifying the Reference Identification MG Meter Number RB Rate Code Number Identifies an Energy Service Provider Rate Class			M ID 2/3
	REF02	127	Reference inf Transaction S	<b>Reference Identification</b> Reference information as defined for particular Transaction Set or as specified by the Reference Identification Oualifier.		
	REF03	352	For MG: 1	<b>Description</b> For MG: Meter Location Description For RB: Rate Category Text for service		X AN 1/80
			Rate category	Service Type	Rate category text	
			PG-C-CSG	Gas	Commercial Standby Generator Service	
			PG-C-CTSG	Gas	Comm Standby Gen Svc - Transportation	
			PG-C-GS1	Gas	General Service 1 (GS1)	
			PG-C-GS2	Gas	General Service 2 (GS2)	
			PG-C-GS3	Gas	General Service 3 (GS3)	
			PG-C-GS4	Gas	General Service 4 (GS4)	
			PG-C-GS5	Gas	General Service 5 (GS5)	
			PG-C-GT1	Gas	General Service 1 - Transportation	
			PG-C-GT2	Gas	General Service 2 - Transportation	
			PG-C-GT3	Gas	General Service 3 - Transportation	
			PG-C-GT4	Gas	General Service 4 - Transportation	
			PG-C-GT5	Gas	General Service 5 - Transportation	
			PG-C-NGVS	Gas	Natural Gas Vehicle Service	
			PG-C-NGVT	Gas	Natural Gas Vehicle Svc - Transportation	
			PG-C-SGS	Gas	Small General Service (SGS)	
			PG-C-SGT	Gas	Small General Service - Transportation	
			PG-C-SIS	Gas	Small Interruptible Service	
			PG-C-SITS	Gas	Small Interruptible Svc - Transportation	
			PG-C-WHS	Gas	Wholesale Service - Firm	

PG-C-WHTS	Gas	Wholesale Transport Service
PG-I-CIST	Gas	Contract Interruptible Svc - Transport
PG-I-GS1	Gas	General Service 1 (GS1)
PG-I-GS2	Gas	General Service 2 (GS2)
PG-I-GS3	Gas	General Service 3 (GS3)
PG-I-GS4	Gas	General Service 4 (GS4)
PG-I-GS5	Gas	General Service 5 (GS5)
PG-I-GT1	Gas	General Service 1 - Transportation
PG-I-GT2	Gas	General Service 2 - Transportation
PG-I-GT3	Gas	General Service 3 - Transportation
PG-I-GT4	Gas	General Service 4 - Transportation
PG-I-GT5	Gas	General Service 5 - Transportation
PG-I-IS	Gas	Interruptible Service
PG-I-ISLV	Gas	Interruptible Service - Large Volume
PG-I-ISLVT	Gas	Interruptible Svc Lrg Volume - Transp
PG-I-IST	Gas	Interruptible Svc - Transportation
PG-I-SIS	Gas	Small Interruptible Service
PG-I-SITS	Gas	Small Interruptible Transportation Svc
PG-L-CSLS	Gas	Comm Street Lighting Service (CSLS)
PG-L-CTSL	Gas	Comm Transportation Street Lighting
PG-R-RG1	Gas	General Service 1
PG-R-RG2	Gas	General Service 2
PG-R-RG3	Gas	General Service 3
PG-R-RGT1	Gas	General Service 1 - Transportation
PG-R-RGT2	Gas	General Service 2 - Transportation
PG-R-RGT3	Gas	General Service 3 - Transportation
PG-R-RS1	Gas	Residential Service RS-1
PG-R-RS2	Gas	Residential Service RS-2
PG-R-RS3	Gas	Residential Service RS-3
PG-R-RSG	Gas	Residential Standby Generator Svc
PGCU-CNG	Gas	CNG - Company Use (8888)
PGCU-GS	Gas	General Service - Company Use (8888)
TE-C-CS	Electric	Construction Service
TE-C-CSTUG	Electric	Construction Service - TUG
TE-C-GS	Electric	General Service - Non Demand
TE-C-GSD	Electric	General Service Demand - Standard
TE-C-GSDO	Electric	General Service-Demand - Optional
TE-C-GSDT	Electric	General Service Demand -Time of Day
TE-C-GST	Electric	General Service Non-Demand -Time Of
TE-C-GSUM	Electric	Day General Service - Unmetered
TE-C-IS	Electric	Interruptible Service
TE-C-IST	Electric	Interruptible Service - Time-of-Day
TE-C-SBF	Electric	Firm Standby and Supplemental Service
TE-C-SBFT	Electric	Firm Standby and Supplemental - TOD
TE-C-SBI	Electric	Interruptible Standby and Supplemental
TE-C-SBIT	Electric	Interruptible Standby and Supp TOD
TE-C-ZAPCP	ZapCap	TEC Commercial ZapCap
TE-I-GS	Electric	General Service Non-Demand - Standard

TE-I-GSD	Electric	General Service Demand - Standard
TE-I-GSDO	Electric	General Service Demand -Optional
TE-I-GSDT	Electric	General Service Demand -Time of Day
TE-I-GST	Electric	General Service Non-Demand - Time of
TE-I-GSUM	Electric	Day General Service - Unmetered
TE-I-IS	Electric	Interruptible Service
TE-I-IST	Electric	Interruptible Service - Time of Day
TE-I-SBF	Electric	Firm Standby and Supplemental - Stnd
TE-I-SBFT	Electric	Firm Standby and Supplemental - TOD
TE-I-SBI	Electric	Interruptible Standby and Supplemental
TE-I-SBIT	Electric	Interruptible Standby and Supp TOD
TE-L-LS1	Electric	Lighting Service
TE-R-RS	Electric	Residential Service
TE-R-RSD	Electric	General Service Demand
TE-R-RSVP	Electric	Residential Service Variable Service
TE-R-ZAPCP	ZapCap	Residential ZapCap
TECU-CS	Electric	Construction Service - Company Use
TECU-GS	Electric	General Service - Company Use
TECU-GSD	Electric	General Service Demand - Company Use
TECU-GSDO	Electric	GSD Optional - Company Use
TECU-LS1	Electric	Lighting Service - Company Use
TECU-RS	Electric	Residential Company Use

# Segment:<br/>Position:DTM Date/Time Reference150150Loop:IT1Level:DetailUsage:OptionalMax Use:10Purpose:To specify pertinent dates and times.Syntax Notes:1 At least one of DTM02 DTM03 or DTM05 is required.<br/>2 If DTM04 is present, then DTM03 is required.<br/>3 If either DTM05 or DTM06 is present, then the other is required.

Comments:

	Ref. Des.	<u>Data</u> Element	Name	<u>Attributes</u>
М	DTM01	374	Date/ Time Qualifier Code specifying type of date or time, or both date and time. 186 Invoice Period Start 187 Invoice Period End Next 634 Next Scheduled Read Date	M ID 3/3
	DTM02	634	<b>Date</b> Meter Read date Date expressed CCYYMMDD	X DT 8/8

	SAC Service, Promotion, Allowance, or Change
Segment:	Information
Position:	230
Loop:	SLN
Level:	Detail
Usage:	-
Max Use:	25
Purpose:	To request or identify a service, promotion, allowance, or change to specify the amount or percentage for the service, promotion, allowance, or change.
Syntax Notes:	<ol> <li>At least one of SAC02 or SAC03 is required.</li> <li>If either SAC03 or SAC04 is present, then the other is required.</li> <li>If either SAC06 or SAC07 is present, then the other is required.</li> <li>If either SAC09 or SAC10 is present, then the other is required.</li> </ol>
Semantic Notes:	<ul> <li>1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.</li> <li>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.</li> <li>3 SAC08 is the allowance or charge rate per unit.</li> <li>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.</li> </ul>
Comments:	<ol> <li>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.</li> <li>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.</li> </ol>

	Ref. Des	Data Element	Name	Attributes
М	SAC01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance C Charge	M ID 1/1
	SAC03	559	Agency Qualifier Code Code identifying the agency assigning the code values EU Electric Utilities GU Gas Utilities	X ID 2/2

#### SAC04 1301 Agency Service, Promotion, Allowance, or Charge Code

Agency maintained code identifying the service, promotion, allowance, or charge

ADM000	ADMIN CHARGES
BAS001	BASIC CUSTOMER CHARGE
CAP000	CAPACITY CHARGE
CRE004	TRANSFORMER CREDIT
CRE004	STANDBY GENERATOR CREDIT
DIS000	DISTRIBUTION CHARGE
DMD000	LOCAL FACILITIES RESERVATION
DMD000	DEMAND CHARGE ON PEAK
DMD000	POWER SUPPLY RESERVATION CAPACITY
DMD000	POWER SUPPLY RES CONSERVATION
DMD000	POWER SUPPLY DEMAND CAPACITY
DMD000	POWER SUPPLY DEMAND
DMD000	SUPPLEMENTAL CAPACITY
DMD000	SUPPLEMENTAL DEMAND
DMD000	SUPPLEMENTAL ONPEAK DEMAND
DMD000	SUPPLEMENTAL ENERGY CONSERVATION
DMD001	DEMAND CHARGE
ECO000	ENERGY CONSERVATION CHARGE
ENC000	STANDBY OFFPEAK ENVIRONMENTAL
ENC000	STANDBY ONPEAK ENVIRONMENTAL
ENC000	ENERGY CHARGE OFF PEAK
ENC000	ENERGY CHARGE ON PEAK
ENC000	ENERGY CHARGE ON/OFF PEAK
ENC000	STANDBY ENERGY OFF-PEAK
ENC000	STANDBY ENERGY ONPEAK
ENC000	SUPPLEMENTAL ENVIRONMENTAL OFFPEAK
ENC000	SUPPLEMENTAL ENVIRONMENTAL ONPEAK
ENC000	SUPPLEMENTAL ENERGY OFFPEAK
ENC000	SUPPLEMENTAL ENERGY ONPEAK
ENC001	ENERGY CHARGE
	ENVIRONMENTAL COST RECOVERY
	FUEL CHARGE
FUE002	ON PEAK FUEL
FUE003	OFF PEAK FUEL
GLM001	INTERRUPTIBLE SUPPLY DEMAND CREDIT
GLM002	POWER SUPPLY RESERVATION CREDIT
IMB000	
ODL002	LIGHTING SERVICES
PFA001	POWER FACTOR ADJUSTMENT
PGA000	PGA TRUE UP
	MEP/MSEA CHARGE
	SALES/MERCHANDISE
SWG000	GAS SWING CHARGE

SAC05	610	Amount Monetary amount The code used in SAC01 does not indicate the sign of the SAC05 amount in SAC05. The amount shown in may be either positive or negative; if negative, the minus sign "-", must be transmitted.	O N2 1/15
SAC06	378	Percent Qualifier Z Mutually Defined	X ID 1/1
SAC07	332	Allowance or Charge Percent	X R 1/6
SAC08	118	Allowance or Charge Rate	O R 1/9
SAC09	355	<pre>Unit or Basis for Measurement Code    ZZ Mutually Defined    KH Kilowatt Hour    K1 Kilowatt Demand         Represents potential power load         measured at predetermined intervals.    K3 Kilovolt Amperes Reactive Hour    TD Therms    TZ MCF    CF Cubic feet</pre>	X ID 2/2
SAC10	380	Quantity	X R 1/15
SAC15	352	<b>Description</b> A free-form description to clarify the related data elements and their content.	X AN 1/80

Segment:	N1 Name
Position:	240
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 presented, then the other is required.
Semantic Notes:	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.

**Comments:** Service Address

	Ref. Des.	Data Element	Name	Attributes
М	N101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property, or an individual MQ Metering Location	M ID 2/3
	N102	93	<b>Name</b> Free-form name	X AN 1/60

Segment:	N3 Address Information
Position:	260
Loop:	N1
Level:	Heading
Usage:	Optional
Max Use:	2
Purpose:	To specify the location of the named party.
Syntax Notes:	
Semantic Notes:	
Comments:	Service Address

	Ref. Des.	<u>Data</u> Element	Name	<u>Attributes</u>
м	N301	166	Address Information Address information	M AN 1/55

Segment:	N4 Geographic Location
Position:	270
Loop:	N1
Level:	Heading
Usage:	Optional
Max Use:	1
Purpose:	To specify the geographic place of the named party.
Syntax Notes:	
Semantic Notes:	
Comments:	<ol> <li>A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.</li> <li>N402 is required only if city name (N401) is in the U.S. or Canada.</li> </ol>

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

# Segment: **TDS** Total Monetary Value Summary

5	
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
Comments:	
	TDS will be equal to Sum of all SAC and TXI segments. In case of credit balance with Remittance party, TDS will be equal to sum of all SAC and TXI segments + BAL*P*PB - BAL*M*TP

	Ref. Des	<u>Data</u> Element	Name	Attributes
м	TDS01	610	<b>Amount</b> Monetary amount	M N2 1/15

	SAC Service, Promotion, Allowance, or Change
Segment:	Information
Position:	040
Loop:	SAC
Level:	Summary
Usage:	Optional
Max Use:	1
Purpose:	To request or identify a service, promotion, allowance, or change to specify the amount or percentage for the service, promotion, allowance, or change.
Syntax Notes:	<ol> <li>At least one of SAC02 or SAC03 is required.</li> <li>If either SAC03 or SAC04 is present, then the other is required.</li> <li>If either SAC06 or SAC07 is present, then the other is required.</li> <li>If either SAC09 or SAC10 is present, then the other is required.</li> </ol>
Semantic Notes:	<ol> <li>If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.</li> <li>SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08 then SAC05 takes precedence.</li> <li>SAC08 is the allowance or charge rate per unit.</li> <li>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.</li> </ol>
Comments:	<ol> <li>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.</li> <li>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.</li> </ol>

	Ref. Des	<u>Data</u> Element	Name	Attributes
м	SAC01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance C Charge	M ID 1/1
	SAC03	559	Agency Qualifier Code identifying the type of service EU- Electric Utilities GU- Gas Utilities	X ID 2/2

SAC04	1301	Charge Code		X AN 1/10
			ained code identifying the promotion, owance, or charge	
		ADJ000	WRITE-OFF	
		ADJ000	ACCOUNT MAINTANENCE	
		ADJ000	ADJUSTMENT	
		CRE000	GOODWILL	
		DAB001	DEPOSIT	
		DAB002	DEPOSIT INTEREST	
		DAB003	DEPOSIT APPLIED	
		H00001	SERVICE CONNECTION CHARGE	
		H00001	CONVERTED CONNECTION CHARGES	
		LPC001	LATE PAYMENT CHARGE	
		LPC001	CONVERTED LATE PAYMENT CHARGE	
		MSC001	MISC CHARGE	
		RCS001	RECONNECT CHARGE	
		RT01	RETURN CHECK FEE	
		RT01	CONVERTED RETURN CHECK FEE	
		RTO2	RETURN CHECK AMOUNT	
		RTO2	CONVERTED RETURN AMOUNT	
		SUR002	FRANCHISE FEE	
		TRS001	TRANSFER FROM ACCOUNT TO ACCOUNT	
		TRS002	TRANSFER FROM ACCOUNT TO ACCOUNT	
		TRS003	TRANSFER FROM ACCOUNT TO ACCOUNT	
		TRS004	TRANSFER FROM ACCOUNT TO ACCOUNT	
		TRS005	TRANSFER FROM ACCOUNT TO ACCOUNT	
		VCR000	VOLUNTARY PLEDGE CONTRIBUTION	
		PRB001	UNPAID PREVIOUS BALANCE	
SAC05	610	of the amount be either pos	unt d in the SAC01 does not indicate the sign t in SAC05. The amount shown in SAC05 may sitive or negative; if negative, the "-", must be transmitted.	0 N2 1/15
SAC08	118	Allowance o	or Charge Rate	O R 1/9
SAC09	355	Unit or bas	sis for Measurement Code	X ID 2/2
SAC10	380	Quantity		X R 1/15
SAC15	352		<b>n</b> description to clarify the related data their content	X AN 1/80

Segment:	TXI Tax Information
Position:	050
Loop:	SAC
Level:	Summary
Usage:	Optional
Max Use:	10
Purpose:	To specify tax information.
Syntax Notes:	1 At least one of TX102 TX103 or TX106 is required. 2 If either TX104 or TX105 is present, then the other is required. 3 If TX108 is present, then TX103 is required.
Semantic Notes:	<ol> <li>1 TX102 is the monetary amount of the tax.</li> <li>2 TX103 is the tax percent expressed as a decimal.</li> <li>3 TX107 is a code indicating the relationship of the price or amount to the associated segment</li> </ol>
Comments:	

	Ref. Des	<u>Data</u> Element	Name	Attributes
М	TX101	963	Tax Type Code Code specifying the type of tax GR Gross Receipts Tax LS State and Local Sales Tax MP Municipal Tax ST State Sales Tax	M ID 2/2
	TX102	782	Monetary Amount Monetary amount	X R 1/18

Segment:	CTT Transaction Totals
Position:	070
Loop:	SAC
Level:	Summary
Usage:	Optional
Max Use:	1
Purpose:	To transmit a hash total for a specific element in the transaction set.
Syntax Notes:	
Semantic Notes:	
Comments:	1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

	Ref. Des	<u>Data</u> Element	Name	Attributes
М	CTT01	354	<b>Number of Line Items</b> Total number of lines items in the transaction. The number of IT1 segments.	M NO 1/6

Segment:	SE Transaction Set Trailer
Position:	080
Loop:	
Level:	Summary
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:	
Semantic Notes:	
Comments:	1 SE is the last segment of each transaction set completeness and correctness.

	Ref. Des.	Data Element	Name	<u>Attributes</u>
М	SE01	96	<b>Number of Included Segments</b> Total number of segments included in a transaction set including ST and SE segments	M NO 1/10
М	SE02	329	<b>Transactions Set Control Number</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set.	M AN 4/9

Segment:	GE Group Trailer
Position:	
Loop:	
Level:	
Usage:	
Max Use:	
Purpose:	To indicate the end of a functional group and to provide control information.
Syntax Notes:	
Semantic Notes:	
Comments:	

Ref. Des.	Data Element	Name	Attributes
GE01	97	Number of Transactions Included	M NO 1/10
GE02	28	Group Control Number	M AN 4/9

Segment:	IEA Interchange Control Trailer
Position:	
Loop:	
Level:	
Usage:	
Max Use:	
Purpose:	To define the end of an interchange of zero or more functional groups and interchange-related control segments.
Syntax Notes:	
Semantic Notes:	

Comments:

Ref. Des.	Data Element	Name	Attributes
ISA01	116	Number of Included Functional Groups	M NO 1/05
ISA02	112	Interchange Control Number	M NO 9/9