



Implementation Guideline

for

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

TRANSACTION SET

810

Customer Bill Information

Ver/Rel 004010

Summary of Changes

June 27, 2000	- Added REF segment in Header for Bill Period - IT1 Loop in the Detail will map Meter Measurements and Un-metered - Added QTY segment in Detail for Reading Differences - Added REF segment in Detail for Un-metered Description - On and Off Peak Date and Time will be mapped in a DTM segment in the Detail - Added DTM segment in the IT1 Loop
July 14, 2000	Late Charge Percent will map to SAC13 in the summary section
July 25, 2000	The demand on and off peak time will be mapped to DTM06 with 'TM' in DTM05 as the qualifier for the format (HHMM)
April 24, 2001	Added REF segment in Header for Price to Compare information
March 10, 2003	Removed N402 from Bill to, Service Location, and Energy Service Provider address segments
May 20, 2005	- Removed references to unused data elements in all Syntax Notes, Semantic Notes, Comments and Notes - Added BIG10 Data Element in Header to identify type of account - Removed MEA19, MEA20, MEA 21 in the IT1 loop. - Added MEA05, MEA06, MEA07 in the IT1 loop. - Corrected DTM814 and DTM 634 segments to show that they are provided in the N1 loop, Position 140 per ANSI X12 Standards. - Updated code list for SAC04. - Added notes to IT1 loop: IT112 and IT113 are used only if IT109 = METER and IT110 and IT111 are used only if IT109 =RATE
June 14, 2005	Added SAC13 to Summary Section
June 24, 2005	Updated code list for SAC04 used in Summary Section.
June 15, 2007	Updated code list for SAC04.
Focus Implementation November 2014	- Changed reference to account number to Supplier Agreement ID - Added REF*45 for old Supplier Agreement ID (formerly known as account number) - ADJ000 – All DLC Adjustments (See SAC15) - MSC001 – All DLC Current Bill Charges (See SAC15) - Added N1 segment for ESP name
Off-cycle switching February 2015	

810 Invoice

Notes

997 - Functional Acknowledgment

- The purpose of the 997 is to verify receipt of a transmitted document only, not the acceptance of the document.

Interchange Control Number

- A unique and sequential interchange control number should be used on every envelope that is transmitted to a trading partner. This approach will allow the receiver to audit the interchange for any duplicate or missing transmissions.

Capitalization

- The use of all upper case (capital) letters is preferred over the use of mixed upper and lower case letters.

Use of The IT1 Segment

- An IT1 loop is used to accumulate all consumption and charge detail for a single meter or service. Each meter or service will be detailed in a separate IT1 loop.

Use of the MEA Segment

- The MEA segment is used to convey consumption readings for one metering period.

Use of the SLN Segment

- The IT1/SLN segment is used to overcome the limitation on the number of IT1/SAC loops. In some environments, more than 25 separate charges or allowances are associated with one IT1. Use of the SLN segment provides for a maximum of 1,000 individual SAC and TXI iterations

Use of the DTM Segment

- The DTM Segment is used in the N1 Loop, in compliance with ANSI X12 standards

810 Invoice

Functional Group ID=**IN**

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:

<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Base Status</u>	<u>User Status</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
010	ST	Transaction Set Header	M	M	1		
020	BIG	Beginning Segment for Invoice	M	M	1		
030	NTE	Note/Special Instruction (DLC Bill Messages)	O		100		
030	NTE	Note/Special Instruction (ESP Bill Message)	O		100		
050	REF	Reference Identification (DLC Supplier Agreement ID.)	O		12		
050	REF	Reference Identification (ESP Account Num.)	O		12		
050	REF	Reference Identification (Rate Code)	O		12		
050	REF	Reference Identification (Rider Code)	O		12		
050	REF	Reference Identification (Bill Method)	O		12		
050	REF	Reference Identification (Bill Period)	O		12		
050	REF	Reference Identification (Price to Compare)					
050	REF	Reference Identification (Old Account Number	O		12		
LOOP ID - N1						200	
070	N1	Name - (Bill To Info)	O		1		
080	N2	Additional Name Information	O		2		
090	N3	Address Information	O		2		
100	N4	Geographic Location	O		1		
LOOP ID - N1						200	
070	N1	Name - (Service Location Info)	O		1		
080	N2	Additional Name Information	O		2		
090	N3	Address Information	O		2		
100	N4	Geographic Location	O		1		
LOOP ID - N1						200	
070	N1	Name - (Energy Service Provider)	O		1		
080	N2	Additional Name Information	O		2		
090	N3	Address Information	O		2		
100	N4	Geographic Location	O		1		
120	PER	Administrative Communications Contact	O		3		
LOOP ID - N1						200	
070	N1	Name - (Remit To Info)	O		1		
080	N2	Additional Name Information	O		2		
090	N3	Address Information	O		2		
100	N4	Geographic Location	O		1		

Duquesne Light Company

120	PER	Marketing Contact	O	3
-----	-----	-------------------	---	---

Duquesne Light Company

140	DTM	Date/Time Reference (Due Date)	O	10
140	DTM	Date/Time Reference (Next Schedule Read Date)	O	10

Detail:

Pos. No.	Seg. ID	Name	Base Status	User Status	Max.Use	Loop Repeat	Notes and Comments
LOOP ID - IT1 (Meter Measurements or Unmetered)						200000	
010	IT1	Baseline Item Data (Meter Readings per Meter)	O		1		
015	QTY	Quantity (Readings Difference)	O		5		
059	MEA	Measurements (Readings & Consumption)	O		10		
120	REF	Reference Identification (Meter Number)	O		>1		
120	REF	Reference Identification (Un-metered Desc)	O		>1		
150	DTM	Date/Time Reference (Service Period Start)	O		10		
150	DTM	Date/Time Reference (Service Period End)	O		10		
150	DTM	Date/Time Reference (Demand Peak Period)	O		10		
LOOP ID - IT1 (DLC Charges Loop)						200000	
010	IT1	Baseline Item Data	O		1		
LOOP ID - SLN						1000	
200	SLN	Subline Item Detail	O		1		
205	DTM	Date/Time Reference	O		1		
230	SAC	Service, Promotion, Allowance, or Charge Information (DLC Information)	O		25		
237	TXI	Tax Information (Sales Tax)	O		10		
LOOP ID - IT1 (ESP Charges Loop)						200000	
010	IT1	Baseline Item Data	O		1		
LOOP ID - N1						200	
240	N1	Name (ESP)	O		1		
LOOP ID - SLN						1000	
200	SLN	Subline Item Detail	O		1		
205	DTM	Date/Time Reference	O		1		
230	SAC	Service, Promotion, Allowance, or Charge Information (ESP Information)	O		25		
237	TXI	Tax Information (Sales Tax)	O		10		
LOOP ID - IT1 (Non-Basic Charges Loop)						200000	
010	IT1	Baseline Item Data	O		1		
LOOP ID - SLN						1000	
200	SLN	Subline Item Detail	O		1		
205	DTM	Date/Time Reference	O		1		
230	SAC	Service, Promotion, Allowance, or Charge Information	O		25		
237	TXI	Tax Information (Sales Tax)	O		10		

Summary:

Pos. No.	Seg. ID	Name	Base Status	User Status	Max.Use	Loop Repeat	Notes and Comments
010	TDS	Total Monetary Value Summary	M	M	1		
LOOP ID - SAC						25	
040	SAC	Service, Promotion, Allowance, or Charge Information	O		1		
050	TXI	Tax Information (PA Sales Tax)	O		10		

Duquesne Light Company

070	CTT	Transaction Totals	O		1	n1
080	SE	Transaction Set Trailer	M	M	1	

Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of IT1 segments.

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: DLC Use: Required

Data Element Summary

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

Segment: **BIG** Beginning Segment for Invoice
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates
Syntax Notes:
Semantic Notes: 1 BIG01 is the invoice issue date.
Comments: 1 BIG07 is used only to further define the type of invoice when needed.
Notes: DLC Use: Required

Data Element Summary				
Ref. Des.	Data Element	Name	Base Attributes	User Attributes
BIG01	373	Date Date expressed as CCYYMMDD	M DT 8/8	M
BIG02	76	Invoice Number Identifying number assigned by issuer This will be a concatenation of the Supplier Agreement ID and the invoice date to create a unique number.	M AN 1/22	M
BIG07	640	Transaction Type Code Code specifying the type of transaction FB Final Bill PR Regular Bill	O ID 2/2	M
BIG08	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original 07 Duplicate CO Corrected	O ID 2/2	M
BIG10	76	Transaction Set Purpose Code Identifying number assigned by issuer This identifies the type of account I Industrial C Commercial R Residential U Unmetered	O AN 1/22	M

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. The use of the NTE segment should be avoided, if at all possible.

Notes: DLC Use: Optional

Data Element Summary

Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>	Base <u>Attributes</u>	User <u>Attributes</u>
NTE01	363	Note Reference Code	M ID 3/3	M
		Code identifying the functional area or purpose for which the note applies		
		ADD Additional Information		
		Utility-required messages or notices.		
NTE02	352	Description	M AN 1/80	M
		A free-form description to clarify the related data elements and their content		

Segment: **REF** **Reference Identification (Billing Account)**
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:
Comments:
Notes: DLC Use: Required

Data Element Summary				
Ref. Des.	Data Element	Name	Base Attributes	User Attributes
REF01	128	Reference Identification Qualifier	M ID 2/3	M
		Code qualifying the Reference Identification		
		11 ESP Account Number ,when available		
		12 Billing Account		
		Supplier Agreement ID for service location		
		Please return this number on payment/remittance		
		RB Rate Code		
		TS Tariff Number--Rider Code		
		BLT Billing Type/Method		
		XY Billing Period		
		ZZ Price to Compare		
		45 Old Supplier Agreement ID		
REF02	127	Reference Identification	X AN 1/30	M
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
REF03	352	Description	X AN 1/80	X
		A free-form description to clarify the related data elements and their content		

Segment:	N1 Name - (Bill To)
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.
Notes:	DLC Use: Required

Data Element Summary				
Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>	Base <u>Attributes</u>	User <u>Attributes</u>
N101	98	Entity Identifier Code	M ID 2/3	M
		Code identifying an organizational entity, a physical location, property or an individual		
		BT Bill To Customer Name		
N102	93	Name	M AN 1/60	M
		Free-form name		
N103	66	Identification Code Qualifier	O ID 1/2	
		Code designating the system/method of code structure used for Identification Code (67)		
		92 Assigned by Buyer or Buyer's Agent		
N104	67	Identification Code	O AN 2/80	
		Code identifying a party or other code		

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: DLC Use: Optional

Data Element Summary

Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
N201	93	Name	M AN 1/60	M
		Free-form name		

Segment: **N3** Address Information
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: DLC Use: Required if a street address exists for the service address

Data Element Summary

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

Segment:	N4 Geographic Location
Position:	100
Loop:	N1 Optional
Level:	Heading
Usage:	Optional
Max Use:	1
Purpose:	To specify the geographic place of the named party
Syntax Notes:	.
Semantic Notes:	
Comments:	1 A combination of either N401 through N404 may be adequate to specify a location. 2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes:	DLC Use: Required if a city/state address exists for the Bill To address N401 will contain city and state

Data Element Summary

Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
N401	19	City Name	M AN 2/30	M
		Free-form text for city name		
N403	116	Postal Code	M ID 3/15	M
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		

Segment: **N1** Name - (Service Location)
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:
Notes: DLC Use: Required

Data Element Summary					
Ref.	Data	<u>Name</u>	<u>Base</u>		<u>User</u>
<u>Des.</u>	<u>Element</u>		<u>Attributes</u>		<u>Attributes</u>
N101	98	Entity Identifier Code	M	ID 2/3	M
		Code identifying an organizational entity, a physical location, property or an individual			
		ST Customer—Service Location			
N102	93	Name	M	AN 1/60	M
		Free-form name			
N103	66	Identification Code Qualifier	X	ID 1/2	O
		'92' ID Code Qualifier			
N104	67	Identification Code	X	AN 2/20	O
		Customer cross-reference 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: DLC Use: Optional

Data Element Summary

Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
N201	93	Name	M AN 1/60	M
		Free-form name		

Segment: **N3** **Address Information**
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: DLC Use: Optional

Data Element Summary

Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
N301	166	Address Information Address information	M AN 1/55	M
N302	166	Address Information Address information	M AN 1/55	M

Segment: **N4 Geographic Location**
Position: 100
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes:
Semantic Notes:
Comments: 1 A combination of either N401 through N404,
2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: DLC Use: Required
N401 will contain city and state

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
N401	19	City Name Free-form text for city name	M AN 2/30	M
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	M ID 3/15	M

Segment: **N1** Name - (Energy Service Provider)
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.
 .
Semantic Notes:
Comments:
Notes: DLC Use: Required if customer has selected an Energy Service Provider

Data Element Summary				
Ref.	Data	Name	Base	User
Des.	Element		Attributes	Attributes
N101	98	Entity Identifier Code	M ID 2/3	M
		Code identifying an organizational entity, a physical location, property or an individual		
		SJ	Service Provider	
		Energy Service Provider		
N102	93	Name	M AN 1/60	M
		Free-form name		

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: DLC Use: Optional

Data Element Summary

Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
N201	93	Name	M AN 1/60	M
		Free-form name		

Segment: **N3** **Address Information**
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:

DLC Use: Required if customer has selected an Energy Service Provider

Data Element Summary

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

Segment:	N4 Geographic Location
Position:	100
Loop:	N1 Optional
Level:	Heading
Usage:	Optional
Max Use:	1
Purpose:	To specify the geographic place of the named party
Syntax Notes:	
Semantic Notes:	
Comments:	1 A combination of either N401 through N404 may be adequate to specify a location. 2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes:	DLC Use: Required if customer has selected an Energy Service Provider N401 will contain city and state

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
N401	19	City Name Free-form text for city name	M AN 2/30	M
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	M ID 3/15	M

Segment: **PER Administrative Communications Contact**
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.
 .
Semantic Notes:
Comments:
Notes: DLC Use: Optional

Data Element Summary					
Ref.	Data		Base	User	
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>	
PER01	366	Contact Function Code	M ID 2/2	M	
		Code identifying the major duty or responsibility of the person or group named			
		IC Information Contact			
PER02	93	Name	M AN 1/60	M	
		Free-form name			
PER03	365	Communication Number Qualifier	M ID 2/2	M	
		Code identifying the type of communication number			
		TE Telephone			
PER04	364	Communication Number	M AN 1/80	M	
		Complete communications number including country or area code when applicable			
		Energy Service Provider (ESP) Contact Number			

Segment:	N1 Name - (Remit To)
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.
Notes:	DLC Use: Required

Data Element Summary					
Ref.	Data	Name	Base	User	
<u>Des.</u>	<u>Element</u>		<u>Attributes</u>	<u>Attributes</u>	
N101	98	Entity Identifier Code	M ID 2/3	M	
		Code identifying an organizational entity, a physical location, property or an individual			
		RE Remit To			
N102	93	Name	M AN 1/60	M	
		Free-form name			
		Duquesne Light Company			
N103	66	Identification Code Qualifier	X ID 1/2	O	
		'9' Duns Number			
N104	67	Identification Code	X AN 2/20	O	
		'007915606' – EDC Duns Number			

Segment: **N3** Address Information
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: DLC Use: Required

Data Element Summary

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

Segment:	N4 Geographic Location
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
Semantic Notes:	
Comments:	1 A combination of either N401 through N404, may be adequate to specify a location. 2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes:	DLC Use: Required if customer has selected an Energy Service Provider N401 will contain city and state

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
N401	19	City Name	M AN 2/30	M
		Free-form text for city name		
N402	156	State or Province Code	M ID 2/2	M
		Code (Standard State/Province) as defined by appropriate government agency		
N403	116	Postal Code	M ID 3/15	M
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		

Segment: **PER Administrative Communications Contact**
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.
 .
Semantic Notes:
Comments:
Notes: DLC Use: Optional

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

Segment: **DTM** **Date/Time Reference (Payment Due Date)**
Position: 140
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: 1 DTM02 is required.

Semantic Notes:**Comments:**

Notes: DLC Use: Required

Data Element Summary

Ref.	Data	Base		User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
DTM01	374	Date/Time Qualifier	M ID 3/3	M
		Code specifying type of date or time, or both date and time		
		814	Payment Due Date	
DTM02	373	Date	M DT 8/8	M
		Date expressed as CCYYMMDD		

Segment: **DTM** **Date/Time Reference (Next Schedule Read Date)**
Position: **140**
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: 1 DTM02 is required.

Semantic Notes:**Comments:**

Notes: DLC Use: Required for residential accounts only

Data Element Summary

Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
DTM01	374	Date/Time Qualifier	M ID 3/3	M
		Code specifying type of date or time, or both date and time		
		634 Next Schedule Read Date		
DTM02	373	Date	M DT 8/8	M
		Date expressed as CCYYMMDD		

Segment: **IT1** **Baseline Item Data (Meter Measurements and Unmetered)**
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: 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.
 5 If either IT112 or IT113 is present, then the other is required.

Semantic Notes: 1 IT101 is the line item identification.

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

Notes: DLC Use: Required as follows

Data Element Summary				
Ref. Des.	Data Element	Name	Base Attributes	User Attributes
IT101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set Line item counter	M AN 1/20	M
IT106	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) SV Service Rendered	M ID 2/2	M
IT107	234	Product/Service ID Identifying number for a product or service ELECTRIC	M AN 1/48	M
IT108	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) C3 Classification	M ID 2/2	M
IT109	234	Product/Service ID Identifying number for a product or service METER	M AN 1/48	M
IT112	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) IT112 and IT113 are used only if IT109 = METER BS Bill Sub Group Code	M ID 2/2	M
IT113	234	Product/Service ID Identifying number for a product or service Measurement--MEA Distributor-----DLC Supplier-----ESP Non-Basic-----NBC	M AN 1/48	M

Segment: **QTY** Quantity
Position: 015
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: 1 QTY02 is required.
Semantic Notes:
Comments:

Notes: DLC Use: Optional

Data Element Summary					
Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>	<u>Base Attributes</u>		<u>User Attributes</u>
QTY01	673	Quantity Qualifier	M	ID 2/2	M
		D1 Billed			
		KA Estimated			
		QD Actual Quantity Delivered			
		P6 Unmetered			
QTY02	380	Quantity	X	R 1/15	X
		Difference in Readings			
QTY03	C001	Composite Unit of Measure	O		
		K1 Kilowatt Demand			
		Represents potential power load measured at predetermined intervals			
		KH Kilowatt Hour			
		K3 Kilovolt_Amperes_Reactive_Demand KVARH			
		99 Watt			

Segment:	MEA Measurements (Broad Category ID)
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 MEA03 is required. 2 C0504 – If MEA05 is present, then MEA04 is required. 3 C0604 – If MEA06 is present, then MEA04 is required.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, MEA06.
Notes:	DLC Use: Optional

Data Element Summary				
Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
MEA01	737	Measurement Reference ID Code	O ID 2/2	
		Code identifying the broad category to which a measurement applies		
		AA Meter reading-beginning actual/ending actual		
		AE Meter reading-beginning actual/ending estimated		
		EA Meter reading-beginning estimated/ending actual		
		EE Meter reading-beginning estimated/ending estimated		
MEA02	738	Measurement Qualifier	O ID 1/3	
		Code identifying a specific product or process characteristic to which a measurement applies		
		PRQ Product Reportable Quantity		
		MU Multiplier		
		ZA Power Factor Multiplier		
MEA03	739	Measurement Value	X R 1/20	
		The value of the measurement		
		Represents quantity of consumption delivered for service period..		
MEA04	C001	Composite Unit of Measure	O	
		To identify a composite unit of measure (See Figures Appendix for examples of use)		
C00101	355	Unit or Basis for Measurement Code	M ID 2/2 M	
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
		K1 Kilowatt Demand		
		Represents potential power load measured at predetermined intervals		
		KH Kilowatt Hour		
		K3 Kilovolt_Amperes_Reactive_Demand KVARH		
		99 Watt		
MEA05	740	Range Minimum	X R 1/20	
		The value specifying the minimum of the measurement range		
		Beginning reading		

MEA06	741	Range Maximum	M	R 1/20	M
		The value specifying the maximum of the measurement range			
		Ending reading or single reading (e.g., demand)			
MEA07	935	Measurement Significance Code	O	ID 2/2	
		Code used to benchmark, qualify or further define a measurement value			
		41 Off Peak			
		42 On Peak			
		51 Total			

Segment: **MEA** Measurements (Specific Product/Process ID)
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 MEA03 is required.

Semantic Notes:

Notes: DLC Use: Required for a meter that has a meter multiplier other than 1
 MEA**MU*2\

Data Element Summary				
Ref. Des.	Data Element	Name	Base Attributes	User Attributes
MEA02	738	Measurement Qualifier Code identifying a specific product or process characteristic to which a measurement applies MU Multiplier	O ID 1/3	
MEA03	739	Measurement Value The value of the measurement Represents the meter constant when MEA02 equals "MU"	X R 1/20	

Segment: **REF** **Reference Identification**
Position: 120
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 REF02 is required.

Comments:

Notes: DLC Use: Required

There will be 1 REF*MG segment per IT1 METER loop

Data Element Summary

Ref.	Data	Name	Base	User
<u>Des.</u>	<u>Element</u>		<u>Attributes</u>	<u>Attributes</u>
REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification MG Meter Number	M ID 2/3	M
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30	M

Segment: **REF** **Reference Identification**
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.

Semantic Notes: **Comments:**
Notes: DLC Use: Required only when account is unmetered

Data Element Summary				
Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>	Base <u>Attributes</u>	User <u>Attributes</u>
REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification QQ Unit Number	M ID 2/3	M
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier U Un-metered	X AN 1/30	
REF03	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80	

Segment: **DTM** **Date/Time Reference (Service Period Start)**
Position: 150
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: 1 DTM02 is required.
 .
Semantic Notes:
Comments:
Notes: DLC Use: Required

Data Element Summary				
Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
DTM01	374	Date/Time Qualifier	M ID 3/3	M
		Code specifying type of date or time, or both date and time		
		150 Service Period Start		
DTM02	373	Date	M DT 8/8	M
		Date expressed as CCYYMMDD		

Segment: **DTM** **Date/Time Reference (Service Period End)**
Position: 150
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: 1 DTM02 is required.

Semantic Notes:**Comments:**

Notes: DLC Use: Required

Data Element Summary

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

Segment: DTM Date/Time Reference (Peak Period)

Position: 150
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: 1 DTM02 is required.
 .
 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:**

Notes: DLC Use: Kilowatt Demand On and Off Peak Date and Time

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
DTM01	374	Date/Time Qualifier	M ID 3/3	M
		Code specifying type of date or time, or both date and time		
		PPP Peak Period		
DTM02	373	Date	X DT 8/8	
		Date expressed as CCYYMMDD		
DTM05	1250	Date Time Period Format Qualifier	X ID 2/3	
		TM Time		
DTM06	1251	Date Time Period	X AN 1/35	
		Time expressed as HHMM		

Segment: IT1 Baseline Item Data (DLC Charges/ Rates)**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**
- 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.

Semantic Notes: **1** IT101 is the line item identification.**Comments:** **1** Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.**Notes:** DLC Use: Required as follows

Data Element Summary				
Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
IT101	350	Assigned Identification	M AN 1/20	M
		Alphanumeric characters assigned for differentiation within a transaction set		
IT106	235	Product/Service ID Qualifier	M ID 2/2	M
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		SV Service Rendered		
IT107	234	Product/Service ID	M AN 1/48	M
		Identifying number for a product or service		
		ELECTRIC		
IT108	235	Product/Service ID Qualifier	M ID 2/2	M
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		C3 Classification		
IT109	234	Product/Service ID	M AN 1/48	M
		Identifying number for a product or service		
		RATE		
IT110	235	Product/Service ID Qualifier	M ID 2/2	M
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		BS Bill Sub Group Code		
		IT110 and IT111 are used only if IT109 =RATE		
IT111	234	Product/Service ID	M AN 1/48	M
		Identifying number for a product or service		
		Measurement--MEA		
		Distributor----DLC		
		Supplier-----ESP		
		Non-Basic-----NBC		

Segment: **SLN** Subline Item Detail
Position: 200
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify product subline detail item data
Syntax Notes:

Semantic Notes: 1 SLN01 is the identifying number for the subline item.
 .
 3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.

Comments: 1 See the Data Element Dictionary for a complete list of IDs.

Notes: DLC Use: Required

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

Segment: **DTM** **Date/Time Reference**
Position: 205
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes: 1 DTM02 is required.
 .
Semantic Notes:
Comments:

Data Element Summary				
<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
DTM01	374	Date/Time Qualifier	M ID 3/3	M
		Code specifying type of date or time, or both date and time		
		733 Date of last payment received		
		AAG Due Date of Previous Bill		
DTM02	373	Date	M DT 8/8	M
		Date expressed as CCYYMMDD		

Segment: SAC DLC Service, Promotion, Allowance, or Charge Information**Position:** 230**Loop:** SLN Optional**Level:** Detail**Usage:** Optional**Max Use:** 25**Purpose:** To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge**Syntax Notes:** 1 At least one of SAC02 or SAC03 is required.

2 If either SAC03 or SAC04 is present, then the other is required.

4 If either SAC09 or SAC10 is present, then the other is required.

Semantic Notes: 1 If SAC01 is "A" or "C", then at least one of SAC05, or SAC08 is required.2 SAC05 is the total amount for the service, promotion, allowance, or charge.
If SAC05 is present with or SAC08, then SAC05 takes precedence.

3 SAC08 is the allowance or charge rate per unit.

Comments: 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge**Data Element Summary**

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
----------------------------	-------------------------------	-------------	----------------------------------	----------------------------------

SAC01	248	Allowance or Charge Indicator	M ID 1/1	M
Code which indicates an allowance or charge for the service specified				
		A	Allowance	
		C	Charge	
		N	No Allowance or Charge	
The amount in the SAC05 should be ignored when summing the invoice total.				

SAC03	559	Agency Qualifier Code	M	ID 2/2	M
Code identifying the agency assigning the code values					
		EU	Electric Utilities		
		Use this code until the DM for code UT to indicate the UIG is approved.			

SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	M AN 1/10	M
Agency maintained code identifying the service, promotion, allowance, or charge				
The Utility Industry Group maintains this code list. See the UIG web site at http://www.uig.org or contact a UIG member for implementation details. The most current listing of codes will be available on the web site.				
		ADJ000	Adjustment – All DLC Adjustments (See SAC15)	
		ADJ002	Adjustment - See SAC15	
		BAS001	DLC Customer Charge	
		CRE001	Credit - See SAC15	
		CRE007	Energy Assistance Credit	
		CRE009	DLC Rider 7 Credit	
		CRE014	Customer Choice Credit	
		CRE021	Monthly Metering Credit	
		CRE022	Meter Reading Credit	
		CRE023	Billing & Payment Credit	
		DAB001	Security Deposit Amount	
		DAB002	Security Deposit Interest Refund	
		DAB003	Security Deposit Refund	
		DCS001	Disconnect Charge	
		DIS001	Distribution Charge	
		DMD032	Fixed Monthly Charge	

		DSC001	Discount - See SAC15			
		DSC004	Rider Credit			
		ENC001	Energy Charge			
		FAC001	Facility Charge			
		FFR001	Flat Rate Marketing Program Charge			
		FUE001	Fuel Adjustment			
		GEN001	Generation Charge			
		GTC001	Generation & Transmission Charge Combined			
		HOC001	Service Connection Charge			
		IBC016	DLC Surcharge			
		INT003	Interest on Refund			
		LPC001	Late Payment Charge			
		MSC001	Miscellaneous Charge - All DLC Current Bill Charges (See SAC15)			
		MSC022	Competitive Transition Charge (CTC)			
		MSC026	Interruptible Penalty Charge			
		MSC041	PA Energy Efficiency Surcharge – See SAC15			
		PRB000	Amount Previous Bill			
		PAY001	Payment Date			
		PRB001	Amount Owed from Last Bill			
		PRB002	Unpaid Balance			
		RCS001	Reconnect Charge			
		RRR006	Refund - Regulatory Commission			
		RRR007	Interest on Refund			
		RTC001	Returned Check Fee			
		RTC002	Returned Check Amount			
		SER001	Service Charge			
		SMD000	Go to SAC15 for text description			
		SMD019	DLC Meter Charge			
		SUR009	Capacity Credit			
		TPI002	Energy Generation Supplier Charges			
		TRN001	Transmission Charge			
		TRS001	Transferred Amount			
		VCR001	Dollar Energy Fund Donation			
SAC05	610	Amount		M	N2 1/15	M
		Monetary amount				
		The amount will be appropriately signed. SAC01 is not to be used to determine the sign of the value in SAC05.				
SAC08	118	Rate		O	R 1/9	
		Rate expressed in the standard monetary denomination for the currency specified				
		Rate can be positive or negative and may contain up to 8 decimal positions.				
SAC09	355	Unit or Basis for Measurement Code		O	ID 2/2	
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		99	Watt			
		BL	Block			
			Baseline usage for a predetermined period of time			
		K1	Kilowatt Demand			
			Represents potential power load measured at predetermined intervals			
		KH	Kilowatt Hour			
		UN	Unit			
SAC10	380	Quantity		O	R 1/15	
		Numeric value of quantity				

SAC15

352

Description**O AN 1/80**

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

Segment: **TXI Tax Information****Position:** 237**Loop:** IT1 Optional**Level:** Detail**Usage:** Optional**Max Use:** 10**Purpose:** To specify tax information**Syntax Notes:** 1 At least one of TXI02 or 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:**

DLC Use: Required as follows-

- State sales tax does not apply to tax exempt accounts
- STAS is not a sales tax but is a tax on rate--
- this state tax is applicable to ALL accounts

Data Element Summary

Ref.	Data	Name	Base	User
<u>Des.</u>	<u>Element</u>		<u>Attributes</u>	<u>Attributes</u>
TXI01	963	Tax Type Code	M ID 2/2	M
		Code specifying the type of tax		
		GR Gross Receipts Tax		
		SP State/Provincial Tax		
		State tax levied which excludes sales or excise taxes		
		State Tax Adjustment Surcharge (STAS)		
		ST State Sales Tax		
TXI02	782	Monetary Amount	M R 1/18	M
		Monetary amount		
TXI03	954	Percent	O R 1/10	
		Percentage expressed as a decimal		
		Present as a decimal, e.g., 65% should be expressed as .65		
TXI07	662	Relationship Code	M ID 1/1	M
		Code indicating the relationship between entities		
		A Add		
		Tax amount in TXI02 is added into the TDS01 invoice total		
		O Information Only		
		Charges which relate to but may not be included in or added to the unit price of the SLN. (i.e., compute WATS calculation based upon usage amounts)		
		Tax amount in TXI02 is not added into the TDS01 invoice total		

Segment: **IT1** **Baseline Item Data (ESP Charges/ Rates)**
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:

- 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.

Semantic Notes:

- 1 IT101 is the line item identification.

Comments:

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

Notes:

DLC Use: Required as follows

Data Element Summary				
Ref. Des.	Data Element	Name	Base Attributes	User Attributes
IT101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	M AN 1/20	M
IT106	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) SV Service Rendered	M ID 2/2	M
IT107	234	Product/Service ID Identifying number for a product or service ELECTRIC	M AN 1/48	M
IT108	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) C3 Classification	M ID 2/2	M
IT109	234	Product/Service ID Identifying number for a product or service RATE	M AN 1/48	M
IT110	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) BS Bill Sub Group Code	M ID 2/2	M
IT111	234	Product/Service ID Identifying number for a product or service Measurement--MEA Distributor-----DLC Supplier-----ESP Non-Basic-----NBC	M AN 1/48	M

Segment: **N1** Name - (ESP Name)
Position: 240
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 N102 required.

Semantic Notes:

Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification.

Notes: DLC Use: Required

Data Element Summary

Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
N101	98	Entity Identifier Code	M ID 2/3	M
		Code identifying an organizational entity, a physical location, property or an individual		
		SJ ESP Name		
N102	93	Name	M AN 1/60	M
		Free-form name		

Segment: **SLN** Subline Item Detail
Position: 200
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify product subline detail item data
Syntax Notes: .

Semantic Notes: 1 SLN01 is the identifying number for the subline item.
 3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.

Comments: 1 See the Data Element Dictionary for a complete list of IDs.
 .

Notes: DLC Use: Required

Data Element Summary

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

Segment: **DTM** **Date/Time Reference**
Position: 205
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes: 1 DTM02 is required.

Semantic Notes:

Comments:

Data Element Summary				
Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
DTM01	374	Date/Time Qualifier	M ID 3/3	M
		Code specifying type of date or time, or both date and time		
		733 Date of last payment received		
DTM02	373	Date	M DT 8/8	M
		Date expressed as CCYYMMDD		

Segment: **SAC** **ESP Service, Promotion, Allowance, or Charge Information**

Position: 230

Loop: SLN Optional

Level: Detail

Usage: Optional

Max Use: 25

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Syntax Notes:

- 1 SAC03 is required.
- 2 If either SAC03 or SAC04 is present, then the other is required.
- 4 If either SAC09 or SAC10 is present, then the other is required.

Semantic Notes:

- 1 If SAC01 is "A" or "C", then at least one of SAC05, , or SAC08 is required.
- 2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC08, then SAC05 takes precedence.
- 3 SAC08 is the allowance or charge rate per unit.

Comments:

- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge.

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
SAC01	248	Allowance or Charge Indicator	M ID 1/1	M
		Code which indicates an allowance or charge for the service specified		
		A Allowance		
		C Charge		
		N No Allowance or Charge		
		The amount in the SAC05 should be ignored when summing the invoice total.		
SAC03	559	Agency Qualifier Code	M ID 2/2	M
		Code identifying the agency assigning the code values		
		EU Electric Utilities		
		Use this code until the DM for code UT to indicate the UIG is approved.		
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	M AN 1/10	M
		Agency maintained code identifying the service, promotion, allowance, or charge		
		The Utility Industry Group maintains this code list. See the UIG web site at http://www.uig.org or contact a UIG member for implementation details. The most current listing of codes will be available on the web site.		
		ADJ000 Adjustment – All DLC Adjustments (See SAC15)		
		ADJ002 Adjustment - See SAC15		
		BAS001 DLC Customer Charge		
		CRE001 Credit - See SAC15		
		CRE007 Energy Assistance Credit		
		CRE009 DLC Rider 7 Credit		
		CRE014 Customer Choice Credit		
		CRE021 Monthly Metering Credit		
		CRE022 Meter Reading Credit		
		CRE023 Billing & Payment Credit		
		DAB001 Security Deposit Amount		
		DAB002 Security Deposit Interest Refund		
		DAB003 Security Deposit Refund		
		DCS001 Disconnect Charge		
		DSC004 Rider Credit		

		DIS001	Distribution Charge		
		DSC001	Discount - See SAC15		
		ENC001	Energy Charge		
		FAC001	Facility Charge		
		FFR001	Flat Rate Marketing Program Charge		
		FUE001	Fuel Adjustment		
		GEN001	Generation Charge		
		GTC001	Generation & Transmission Charge Combined		
		HOC001	Service Connection Charge		
		IBC016	DLC Surcharge		
		INT003	Interest on Refund		
		LPC001	Late Payment Charge		
		MSC001	Miscellaneous Charge - All DLC Current Bill Charges (See SAC15)		
		MSC022	Competitive Transition Charge (CTC)		
		MSC026	Interruptible Penalty Charge		
		MSC041	PA Energy Efficiency Surcharge – See SAC15		
		PRB000	Amount Previous Bill		
		PAY001	Payment Date		
		PRB001	Amount Owed from Last Bill		
		PRB002	Unpaid Balance		
		RCS001	Reconnect Charge		
		RRR006	Refund - Regulatory Commission		
		RRR007	Interest on Refund		
		RTC001	Returned Check Fee		
		RTC002	Returned Check Amount		
		SER001	Service Charge		
		SMD000	Go to SAC15 for text description		
		SMD019	DLC Meter Charge		
		SUR009	Capacity Credit		
		TPI002	Energy Generation Supplier Charges		
		TRN001	Transmission Charge		
		TRS001	Transferred Amount		
SAC05	610	Amount		M	N2 1/15 M
		Monetary amount			
		The amount will be appropriately signed. SAC01 is not to be used to determine the sign of the value in SAC05.			
SAC08	118	Rate		O	R 1/9
		Rate expressed in the standard monetary denomination for the currency specified			
		Rate can be positive or negative and may contain up to 8 decimal positions.			
SAC09	355	Unit or Basis for Measurement Code		O	ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			
		99	Watt		
		BL	Block		
			Baseline usage for a predetermined period of time		
		K1	Kilowatt Demand		
			Represents potential power load measured at predetermined intervals		
		KH	Kilowatt Hour		
		UN	Unit		
SAC10	380	Quantity		O	R 1/15
		Numeric value of quantity			
SAC15	352	Description		O	AN 1/80

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

Segment:	TXI Tax Information
Position:	237
Loop:	IT1 Optional
Level:	Detail
Usage:	Optional
Max Use:	10
Purpose:	To specify tax information
Syntax Notes:	1 At least one of TXI02 or TXI03 6 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:	DLC Use: Required as follows-- State sales tax does not apply to tax exempt accounts STAS is not a sales tax but is a tax on rate-- this state tax is applicable to ALL accounts

Data Element Summary				
<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
TXI01	963	Tax Type Code	M ID 2/2	M
		Code specifying the type of tax		
		GR Gross Receipts Tax		
		SP State/Provincial Tax		
		State tax levied which excludes sales or excise taxes		
		State Tax Adjustment Surcharge (STAS)		
		ST State Sales Tax		
TXI02	782	Monetary Amount	M R 1/18	M
		Monetary amount		
TXI03	954	Percent	O R 1/10	
		Percentage expressed as a decimal		
		Present as a decimal, e.g., 65% should be expressed as .65		
TXI07	662	Relationship Code	M ID 1/1	M
		Code indicating the relationship between entities		
		A Add		
		Tax amount in TXI02 is added into the TDS01 invoice total		
		O Information Only		
		Charges which relate to but may not be included in or added to the unit price of the SLN. (i.e., compute WATS calculation based upon usage amounts)		
		Tax amount in TXI02 is not added into the TDS01 invoice total		

Segment: **IT1** **Baseline Item Data (Non-Basic Charges/ Rates)**
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:

- 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.

Semantic Notes:

- 1 IT101 is the line item identification.

Comments:

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

Notes:

DLC Use: Required as follows

Data Element Summary				
Ref. Des.	Data Element	Name	Base Attributes	User Attributes
IT101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	M AN 1/20	M
IT106	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) SV Service Rendered	M ID 2/2	M
IT107	234	Product/Service ID Identifying number for a product or service ELECTRIC	M AN 1/48	M
IT108	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) C3 Classification	M ID 2/2	M
IT109	234	Product/Service ID Identifying number for a product or service RATE	M AN 1/48	M
IT110	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) BS Bill Sub Group Code	M ID 2/2	M
IT111	234	Product/Service ID Identifying number for a product or service Measurement--MEA Distributor-----DLC Supplier-----ESP Non-Basic-----NBC	M AN 1/48	M

Segment: **SLN** Subline Item Detail
Position: 200
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify product subline detail item data
Syntax Notes:

Semantic Notes:

- 1 SLN01 is the identifying number for the subline item.
- 2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
- 3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.

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.

Notes: DLC Use: Required

Data Element Summary

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

Segment: **DTM** **Date/Time Reference**
Position: 205
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes: 1 DTM02 is required.
Semantic Notes: .
Comments:

Data Element Summary				
Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
DTM01	374	Date/Time Qualifier	M ID 3/3	M
		Code specifying type of date or time, or both date and time		
		733 Date of last payment received		
DTM02	373	Date	M DT 8/8	M
		Date expressed as CCYYMMDD		

Segment: **DTM** **Date/Time Reference**
Position: 205
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
Semantic Notes:
Comments:
Notes: DLC Use:
 From Date – To Date

Data Element Summary				
Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>	Base <u>Attributes</u>	User <u>Attributes</u>
DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 313 Cycle Range of dates as they pertain to a period of time	M ID 3/3	M
DTM05	1250	Date time Period Format Qualifier Code specifying type of date or time, or both date and time RD8 Range of Dates	X ID2/3	
DTM06	1251	Date time Period Date expressed as CCYYMMDD-CCYYMMDD	X AN1/35	

Segment: SAC Non-Basic Service, Promotion, Allowance, or Charge Information**Position:** 230**Loop:** SLN Optional**Level:** Detail**Usage:** Optional**Max Use:** 25**Purpose:** To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Syntax Notes:

- 1 At least one of SAC02 or SAC03 is required.
- 2 If either SAC03 or SAC04 is present, then the other is required.
- 4 If either SAC09 or SAC10 is present, then the other is required.
- 6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.

Semantic Notes:

- 1 If SAC01 is "A" or "C", then at least one of SAC05, or SAC08 is required.
- 2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC08, then SAC05 takes precedence.
- 3 SAC08 is the allowance or charge rate per unit.

Comments:

- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge.

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
SAC01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance C Charge N No Allowance or Charge The amount in the SAC05 should be ignored when summing the invoice total.	M ID 1/1	M
SAC03	559	Agency Qualifier Code Code identifying the agency assigning the code values EU Electric Utilities Use this code until the DM for code UT to indicate the UIG is approved.	M ID 2/2	M
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code Agency maintained code identifying the service, promotion, allowance, or charge The Utility Industry Group maintains this code list. See the UIG web site at http://www.uig.org or contact a UIG member for implementation details. The most current listing of codes will be available on the web site. ADJ000 Adjustment – All DLC Adjustments (See SAC15) ADJ002 Adjustment - See SAC15 BAS001 DLC Customer Charge CRE001 Credit - See SAC15 CRE007 Energy Assistance Credit CRE009 DLC Rider 7 Credit CRE014 Customer Choice Credit CRE021 Monthly Metering Credit CRE022 Meter Reading Credit CRE023 Billing & Payment Credit DAB001 Security Deposit Amount DAB002 Security Deposit Interest Refund DAB003 Security Deposit Refund	M AN 1/10	M

		DCS001	Disconnect Charge			
		DSC004	Rider Credit			
		DIS001	Distribution Charge			
		DSC001	Discount - See SAC15			
		ENC001	Energy Charge			
		FAC001	Facility Charge			
		FFR001	Flat Rate Marketing Program Charge			
		FUE001	Fuel Adjustment			
		GEN001	Generation Charge			
		GTC001	Generation & Transmission Charge Combined			
		HOC001	Service Connection Charge			
		IBC016	DLC Surcharge			
		INT003	Interest on Refund			
		LPC001	Late Payment Charge			
		MSC001	Miscellaneous Charge - All DLC Current Bill Charges (See SAC15)			
		MSC022	Competitive Transition Charge (CTC)			
		MSC026	Interruptible Penalty Charge			
		MSC041	PA Energy Efficiency Surcharge – See SAC15			
		PRB000	Amount Previous Bill			
		PAY001	Payment Date			
		PRB001	Amount Owed from Last Bill			
		PRB002	Unpaid Balance			
		RCS001	Reconnect Charge			
		RRR006	Refund - Regulatory Commission			
		RRR007	Interest on Refund			
		RTC001	Returned Check Fee			
		RTC002	Returned Check Amount			
		SER001	Service Charge			
		SMD000	Go to SAC15 for text description			
		SMD019	DLC Meter Charge			
		SUR009	Capacity Credit			
		TPI002	Energy Generation Supplier Charges			
SAC05	610	Amount		M	N2 1/15	M
		Monetary amount				
		The amount will be appropriately signed. SAC01 is not to be used to determine the sign of the value in SAC05.				
SAC08	118	Rate		O	R 1/9	
		Rate expressed in the standard monetary denomination for the currency specified				
		Rate can be positive or negative and may contain up to 8 decimal positions.				
SAC09	355	Unit or Basis for Measurement Code		O	ID 2/2	
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		99	Watt			
		BL	Block			
			Baseline usage for a predetermined period of time			
		K1	Kilowatt Demand			
			Represents potential power load measured at predetermined intervals			
		KH	Kilowatt Hour			
		UN	Unit			
		ZZ	Bill Period			
SAC10	380	Quantity		O	R 1/15	
		Numeric value of quantity				
SAC15	352	Description		O	AN 1/80	

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

Segment: **TXI Tax Information**
Position: 237
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify tax information
Syntax Notes: 1 At least one of TXI02 or 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:

DLC Use: Required as follows--
 State sales tax does not apply to tax exempt accounts
 STAS is not a sales tax but is a tax on rate--
 this state tax is applicable to ALL accounts

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
TXI01	963	Tax Type Code Code specifying the type of tax GR Gross Receipts Tax SP State/Provincial Tax State tax levied which excludes sales or excise taxes State Tax Adjustment Surcharge (STAS) ST State Sales Tax	M ID 2/2	M
TXI02	782	Monetary Amount Monetary amount	M R 1/18	M
TXI03	954	Percent Percentage expressed as a decimal Present as a decimal, e.g., 65% should be expressed as .65	O R 1/10	
TXI07	662	Relationship Code Code indicating the relationship between entities A Add Tax amount in TXI02 is added into the TDS01 invoice total O Information Only Charges which relate to but may not be included in or added to the unit price of the SLN. (i.e., compute WATS calculation based upon usage amounts) Tax amount in TXI02 is not added into the TDS01 invoice total	M ID 1/1	M

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).

Comments:

Notes: DLC Use: Required

TDS01 is the total amount due for this invoice and equals the algebraic sum of the amounts in the TXI02 and SAC05 segments
 If the total is negative, the minus sign is sent
 This amount includes any previous balances owed

Data Element Summary

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

Segment: **SAC** Service, Promotion, Allowance, or Charge Information

Position: 040

Loop: SAC Optional

Level: Summary

Usage: Optional

Max Use: 1

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Syntax Notes: 1 SAC03 is required.

Semantic Notes: 1 If SAC01 is "A" or "C", then SAC05, is required.
2 SAC05 is the total amount for the service, promotion, allowance, or charge.

Comments: 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge..

Notes: DLC Use: Required for invoice level charges, including Prior Balance, if applicable

Data Element Summary				
Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>	Base <u>Attributes</u>	User <u>Attributes</u>
SAC01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance C Charge N No Allowance or Charge The amount in the SAC05 should be ignored when summing the invoice total.	M ID 1/1	M
SAC03	559	Agency Qualifier Code Code identifying the agency assigning the code values EU Electric Utilities Use this code until the DM for code UT to indicate the UIG is approved.	M ID 2/2	M
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code Agency maintained code identifying the service, promotion, allowance, or charge The Utility Industry Group maintains this code list. See the UIG web site at http://www.uig.org or contact a UIG member for implementation details. The most current listing of codes will be available on the web site. MSC001 Miscellaneous Charge - See SAC15 (Budget Number) BUD001 Budget Amount – See SAC15 (Budget Amount) LPC000 Late Charge After Due Date – See SAC15 (LPC Percent)	M AN 1/10	M
SAC05	610	Amount Monetary amount The amount will be appropriately signed. SAC01 is not to be used to determine the sign of the value in SAC05.	M N2 1/15	M
SAC13	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30	
SAC15	352	Description A free-form description to clarify the related data elements and their content	O AN 1/80	

Segment: TXI Tax Information**Position:** 050**Loop:** IT1 Optional**Level:** Summary**Usage:** Optional**Max Use:** 10**Purpose:** To specify tax information**Syntax Notes:** 1 At least one of TXI02 or TXI03 is required.

Semantic Notes: 1 TXI02 is the monetary amount of the tax.
 2 TXI03 is the tax percent expressed as a decimal.

Comments:**Notes:**

DLC Use: Required as follows-
 State sales tax does not apply to tax exempt accounts
 STAS is not a sales tax but is a tax on rate--
 this state tax is applicable to ALL accounts

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
TXI01	963	Tax Type Code Code specifying the type of tax GR Gross Receipts Tax ST State Sales Tax	M ID 2/2	M
TXI02	782	Monetary Amount Monetary amount	M R 1/18	M
TXI03	954	Percent Percentage expressed as a decimal Present as a decimal, e.g., 65% should be expressed as .65	O R 1/10	

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:
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.
Notes: DLC Use: Required

Data Element Summary				
Ref.	Data	Name	Base	User
<u>Des.</u>	<u>Element</u>		<u>Attributes</u>	<u>Attributes</u>
CTT01	354	Number of Line Items	M N0 1/6	M
Total number of line items in the transaction set				
The number of IT1 segments				

Segment: **SE** Transaction Set Trailer
Position: 080
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:**Semantic Notes:**

Comments: 1 SE is the last segment of each transaction set.

Notes: DLC Use: Required

Data Element Summary

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